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ANTHRACITE FOREST REGION OF PENNSYLVANIA

Forest Inventory Summaries

(subject to revision)

- Not for publication -

Allegheny Forest Experiment Station
Philadelphia 7, Pa.

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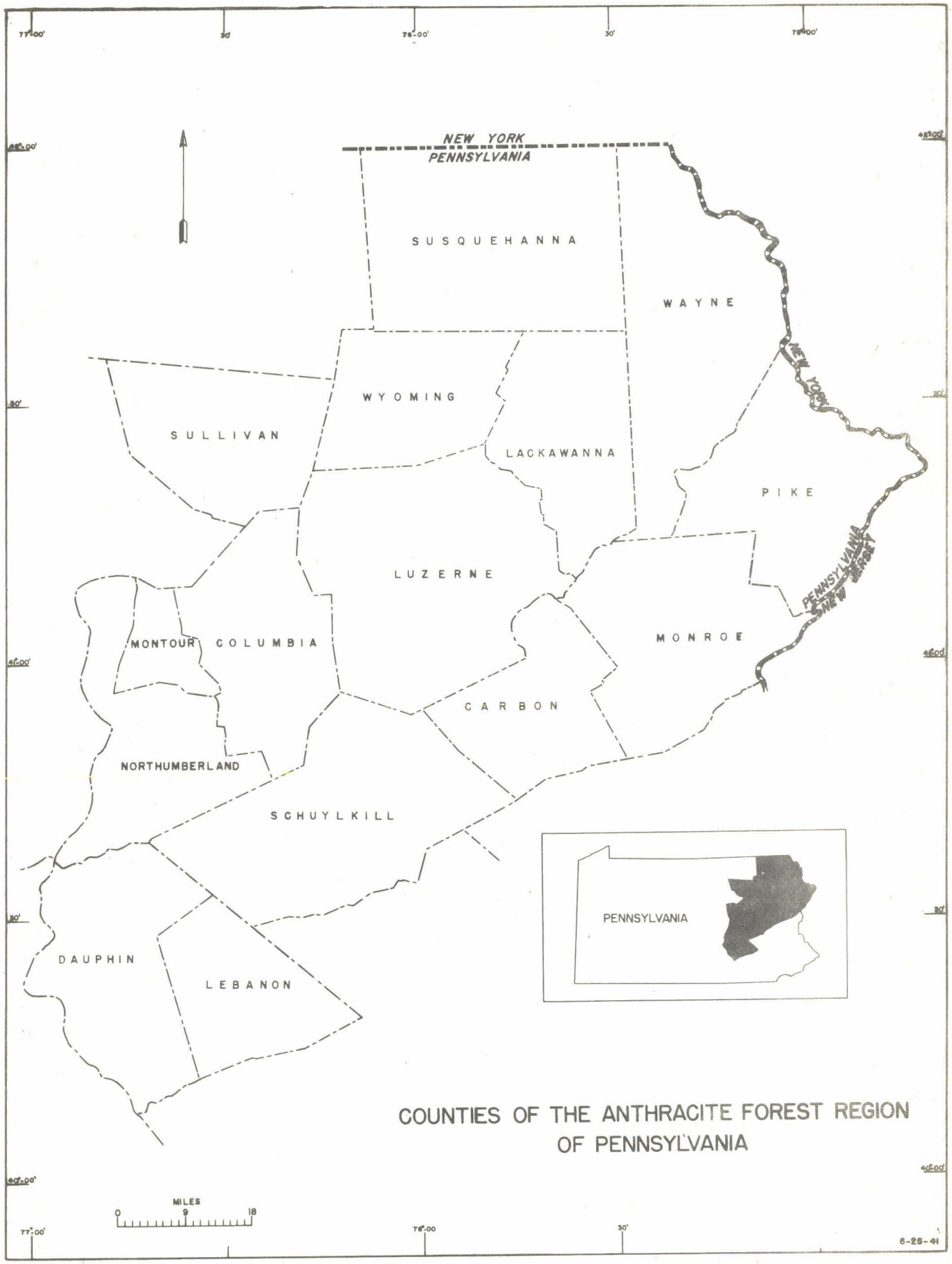

COUNTIES OF THE ANTHRACITE FOREST REGION OF PENNSYLVANIA

Table 1. Land use

Land use	Area acres	Proportion of class percent	Proportion of gross area percent
Forest 1/			
Tracts less than 10 acres	63,300	1.9	1.2
Tracts 10 up to 50 acres	140,200	4.4	2.7
Tracts 50 acres and over	3,034,300	93.7	57.7
All forest land	3,237,800	100.0	61.6
Nonforest			
Cropland 2/	1,059,500	52.5	20.1
Mine waste 1/	60,100	3.0	1.2
Water 2/	73,900	3.7	1.4
Other	822,100	40.8	15.7
All nonforest land	2,015,600	100.0	38.4
Gross area	5,253,400		100.0

1/ Based on aerial photographs taken in 1937 - 1940.

2/ Bureau of the Census, 1940.

Table 2. Forest area by counties

County	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of region forest land
	acres	acres	acres	percent	percent
Carbon	260,000	55,100	204,900	78.8	6.3
Columbia	312,600	164,500	148,100	47.4	4.6
Dauphin	350,800	213,700	137,100	39.1	4.2
Lackawanna	293,400	101,000	192,400	65.6	6.0
Lebanon	231,900	158,600	73,300	31.6	2.3
Luzerne	577,100	182,100	395,000	68.4	12.2
Monroe	395,600	87,700	307,900	77.8	9.5
Montour	83,600	60,400	23,200	27.8	0.7
Northunberland	300,500	178,800	121,700	40.5	3.8
Pike	357,100	39,900	317,200	88.8	9.8
Schuylkill	501,900	157,900	344,000	68.5	10.6
Sullivan	306,300	56,100	250,200	81.7	7.7
Susquehanna	538,000	269,300	268,700	49.9	8.3
Wayne	486,100	192,200	293,900	60.4	9.1
Wyoming	258,500	98,300	160,200	62.0	4.9
All counties	5,253,400	2,015,600	3,237,800	61.6	100.0

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
Northern hardwoods	82,700	46.6	315,300	51.3	564,100	23.1	962,100	29.7
Aspen, gray birch, pin cherry	----	----	6,600	1.1	91,500	3.7	98,100	3.0
White pine, hemlock	43,800	24.7	57,900	9.4	144,800	5.9	246,500	7.6
White pine, white oak, red oak	23,000	13.0	95,800	15.6	536,500	21.9	655,300	20.2
White oak, red oak, black oak	26,000	14.7	122,800	20.0	766,400	31.3	915,200	28.3
Chestnut oak	1,500	0.8	15,000	2.4	99,300	4.1	115,800	3.6
Scrub oak	----	----	----	----	231,500	9.5	231,500	7.2
Other	400	0.2	1,100	0.2	11,800	0.5	13,300	0.4
All types	177,400	100.0	614,500	100.0	2,445,900	100.0	3,237,800	100.0

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	24,500	13.8	0.8
6,000 to 7,999	24,700	13.9	0.8
4,000 to 5,999	40,100	22.6	1.2
2,000 to 3,999	88,100	49.7	2.7
All saw timber	177,400	100.0	5.5
Cordwood 2/ (cords per acre)			
10.0 and over	212,800	34.6	6.6
5.0 to 9.9	401,700	65.4	12.4
All cordwood	614,500	100.0	19.0
All merchantable areas	791,900		24.5
All unmerchantable areas 3/	2,445,900		75.5
All forest land	3,237,800		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

Table 4a. Volume by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
Saw-timber volume	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
Northern hardwoods	375,000	44.8	367,700	55.3	337,100	37.4	1,079,800	45.0
Aspen, gray birch, pin cherry	--	--	3,700	0.6	2,300	0.3	6,000	0.2
White pine, hemlock	244,000	29.1	65,500	9.8	102,100	11.4	411,600	17.1
White pine, white oak, red oak	100,900	12.0	95,400	14.3	197,600	22.0	393,900	16.4
White oak, red oak, black oak	108,900	13.0	118,700	17.9	236,100	26.3	463,700	19.3
Chestnut oak	7,100	0.8	12,400	1.7	15,500	1.7	35,000	1.5
Scrub oak	--	--	--	--	4,000	0.4	4,000	0.2
Other	2,100	0.3	1,000	0.2	4,700	0.5	7,800	0.3
All types	838,000	100.0	664,400	100.0	899,400	100.0	2,401,800	100.0
Total volume	M cu.ft.	percent	M cu.ft.	percent	M cu.ft.	percent	M cu.ft.	percent
Northern hardwoods	132,990	45.1	228,070	53.9	228,420	33.5	589,480	42.2
Aspen, gray birch, pin cherry	--	--	3,000	0.7	25,620	3.8	28,620	2.0
White pine, hemlock	81,040	27.4	41,160	9.7	50,960	7.5	173,160	12.4
White pine, white oak, red oak	37,280	12.6	62,270	14.8	159,610	23.4	259,610	18.5
White oak, red oak, black oak	40,810	13.8	78,690	18.6	189,040	27.7	308,540	22.1
Chestnut oak	2,570	0.9	8,860	2.1	17,120	2.5	28,550	2.0
Scrub oak	--	--	--	--	5,950	0.9	5,950	0.4
Other	710	0.2	700	0.2	4,720	0.7	6,130	0.4
All types	295,400	100.0	423,200	100.0	681,440	100.0	1,400,040	100.0

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally) 1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	249,200	10.4	66,630	4.8	862,500	1,722,400
6,000 to 7,999	163,500	6.8	51,850	3.7	671,500	1,347,200
4,000 to 5,999	185,300	7.7	67,910	4.8	880,500	1,764,200
2,000 to 3,999	240,000	10.0	109,010	7.8	1,415,300	2,836,000
All saw timber	838,000	34.9	295,400	21.1	3,829,800	7,669,800
Cordwood (cords per acre)						
10.0 and over	341,200	14.2	193,290	13.8	2,540,200	5,229,900
5.0 to 9.9	323,200	13.5	229,910	16.4	3,018,200	6,235,400
All cordwood	664,400	27.7	423,200	30.2	5,558,400	11,465,300
All merchantable areas	1,502,400	62.6	718,600	51.3	9,388,200	19,135,100
All unmerchantable areas	899,400	37.4	681,440	48.7	9,085,800	18,255,400
All forest land	2,401,800	100.0	1,400,040	100.0	18,474,000	37,390,500

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	266,300	31.8	69,450	23.5	817,100	21.3	1,484,000	19.3
Oaks, hickory, and hard maple	207,000	24.7	78,630	26.6	1,048,400	27.4	2,371,400	30.9
Other hardwoods	364,700	43.5	147,320	49.9	1,964,300	51.3	3,814,400	49.8
All species	838,000	100.0	295,400	100.0	3,829,800	100.0	7,669,800	100.0
Cordwood stands								
Conifers	160,300	24.1	53,740	12.7	632,200	11.4	1,160,100	10.1
Oaks, hickory, and hard maple	234,000	35.2	152,960	36.1	2,039,500	36.7	4,643,900	40.5
Other hardwoods	270,100	40.7	216,500	51.2	2,886,700	51.9	5,661,300	49.4
All species	664,400	100.0	423,200	100.0	5,558,400	100.0	11,465,300	100.0
All merchantable stands	1,502,400		718,600		9,388,200		19,135,100	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 6a. Saw-timber volume by principal species and forest conditions

Species	Saw timber		Cordwood		Unmerchantable		All conditions	
	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
Conifers								
White pine	101,500	12.2	60,600	9.1	145,600	16.2	307,700	12.8
Hemlock	160,000	19.1	72,900	11.0	143,700	16.0	376,600	15.7
Pitch pine	2,900	0.3	26,600	4.0	15,500	1.7	45,000	1.9
Other	1,900	0.2	200	*	300	*	2,400	0.1
All conifers	266,300	31.8	160,300	24.1	305,100	33.9	731,700	30.5
Hardwoods								
Red oak	63,800	7.6	75,500	11.3	98,300	10.9	237,600	9.9
White oak	46,400	5.5	46,600	7.0	164,800	18.3	257,800	10.7
Chestnut oak	19,900	2.4	30,700	4.6	33,000	3.7	83,600	3.5
Hard maple	74,200	8.9	68,800	10.4	58,500	6.5	201,500	8.4
Hickory	2,700	0.3	12,400	1.9	3,200	0.4	18,300	0.8
Subtotal	207,000	24.7	234,000	35.2	357,800	39.8	798,800	33.3
Red maple	64,200	7.7	55,100	8.3	36,100	4.0	155,400	6.5
Birch	48,100	5.7	14,300	2.2	48,300	5.4	110,700	4.6
Beech	146,200	17.4	70,500	10.6	75,800	8.5	292,500	12.0
Black Cherry	48,500	5.8	29,200	4.4	10,100	1.1	87,800	3.7
Ash, basswood	43,800	5.2	83,100	12.5	29,800	3.3	156,700	6.5
Aspen	8,400	1.0	13,000	2.0	28,200	3.1	49,600	2.1
Other	5,500	0.7	4,900	0.7	8,200	0.9	18,600	0.8
Subtotal	364,700	43.5	270,100	40.7	236,500	26.3	871,300	36.2
All hardwoods	571,700	68.2	504,100	75.9	594,300	66.1	1,670,100	69.5
All species	838,000	100.0	664,400	100.0	899,400	100.0	2,401,800	100.0

* Negligible.

Table 6b. Total volume by principal species and forest conditions

Species	Saw timber		Cordwood		Unmerchantable		All conditions	
	M cu.ft.	percent	M cu.ft.	percent	M cu.ft.	percent	M cu.ft.	percent
Conifers								
White pine	26,040	8.8	18,380	4.3	59,830	8.8	104,250	7.4
Hemlock	41,610	14.1	28,860	6.9	47,890	7.0	118,360	8.5
Pitch pine	900	0.3	6,450	1.5	7,870	1.2	15,220	1.1
Other	900	0.3	50	*	290	*	1,240	0.1
All conifers	69,450	23.5	53,740	12.7	115,880	17.0	239,070	17.1
Hardwoods								
Red oak	23,510	8.0	41,760	9.9	123,870	18.3	189,140	13.6
White oak	17,380	5.9	28,760	6.8	107,910	15.8	154,050	11.0
Chestnut oak	8,490	2.9	32,120	7.6	39,640	5.8	80,250	5.7
Hard maple	26,100	8.7	45,270	10.6	34,020	5.0	105,390	7.5
Hickory	3,150	1.1	5,050	1.2	9,140	1.3	17,340	1.2
Subtotal	78,630	26.6	152,960	36.1	314,580	46.2	546,170	39.0
Red maple	35,210	11.9	58,900	14.0	64,620	9.5	158,730	11.3
Birch	23,720	8.0	33,340	7.9	39,530	5.8	96,590	6.9
Beech	43,010	14.7	43,300	10.2	38,080	5.6	124,390	8.9
Black cherry	13,700	4.6	14,070	3.3	13,590	2.0	41,360	3.0
Ash, basswood	18,860	6.4	46,760	11.0	33,990	5.0	99,610	7.1
Aspen	3,390	1.1	13,420	3.2	32,300	4.7	49,110	3.5
Others	9,430	3.2	6,710	1.6	28,870	4.2	45,010	3.2
Subtotal	147,320	49.9	216,500	51.2	250,980	36.8	614,800	43.9
All hardwoods	225,950	76.5	369,460	87.3	565,560	83.0	1,160,970	82.9
All species	295,400	100.0	423,200	100.0	681,440	100.0	1,400,040	100.0

* Negligible.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers		Oaks hickory, hard maple		Other hardwoods		All species	
inches	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	33,200	12.5					33,200	4.0
12	44,900	16.9	32,200	15.6	85,700	23.5	162,800	19.4
14	43,600	16.4	37,800	18.3	86,400	23.7	167,800	20.0
16	37,800	14.2	31,300	15.1	67,100	18.4	136,200	16.3
18	32,100	12.0	26,300	12.7	50,400	13.8	108,800	13.0
20	22,600	8.5	20,400	9.8	30,300	8.3	73,300	8.7
22 & up	52,100	19.5	59,000	28.5	44,800	12.3	155,900	18.6
All classes	266,300	100.0	207,000	100.0	364,700	100.0	838,000	100.0

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers			Oaks, hickory, and hard maple			Other hardwoods			All species		
inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	9,630	17.9	209,600	30,410	19.9	917,000	61,880	28.6	1,622,000	101,920	24.1	2,748,600
8	14,690	27.3	319,500	42,600	27.8	1,291,700	70,790	32.7	1,848,600	128,080	30.2	3,459,800
10	11,890	22.1	257,200	34,110	22.3	1,037,600	47,390	21.9	1,238,700	93,390	22.1	2,533,500
12	9,440	17.6	202,500	22,490	14.7	684,600	21,480	9.9	560,300	53,410	12.6	1,447,400
14 & up	8,090	15.1	171,300	23,350	15.3	713,000	14,960	6.9	391,700	46,400	11.0	1,276,000
All classes	53,740	100.0	1,160,100	152,960	100.0	4,643,900	216,500	100.0	5,661,300	423,200	100.0	11,465,300

Table 9. Current annual growth by forest types and conditions

	Saw timber		Cordwood		Unmerchantable		All conditions	
	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
Saw-timber volume								
Northern hardwoods	18,710	45.4	32,400	60.4	26,630	40.1	77,740	47.9
Aspen, gray birch, pin cherry	--	--	230	0.4	180	0.3	410	0.3
White pine, hemlock	11,540	28.1	4,990	9.3	7,200	10.8	23,730	14.6
White pine, white oak, red oak	4,800	11.7	7,180	13.5	15,510	23.4	27,490	17.7
White oak, red oak, black oak	5,660	13.8	8,020	15.0	14,120	22.4	27,800	17.6
Chestnut oak	320	0.8	690	1.3	1,340	2.0	2,350	1.5
Scrub oak	--	--	--	--	240	0.4	240	0.1
Other	100	0.2	70	0.1	390	0.6	560	0.3
All types	41,130	100.0	53,580	100.0	65,610	100.0	160,320	100.0
	M cu.ft.	percent	M cu.ft.	percent	M cu.ft.	percent	M cu.ft.	percent
Total volume								
Northern hardwoods	5,333	45.1	11,380	53.2	14,208	31.5	30,921	39.5
Aspen, gray birch, pin cherry	--	--	132	0.6	1,373	3.1	1,505	1.9
White pine, hemlock	3,112	26.3	2,083	9.7	2,767	6.1	7,962	10.2
White pine, white oak, red oak	1,380	14.5	3,190	16.7	10,359	23.0	14,929	20.0
White oak, red oak, black oak	1,441	13.2	3,777	17.7	12,330	32.2	17,548	25.4
Chestnut oak	83	0.7	398	1.9	1,171	2.6	1,652	2.1
Scrub oak	--	--	--	--	340	0.8	340	0.4
Other	26	0.2	39	0.2	330	0.7	395	0.5
All types	11,375	100.0	20,999	100.0	42,878	100.0	75,252	100.0

Table 10. Current annual growth by principal species and forest conditions
Saw-timber volume

Species	Saw timber		Cordwood		Unmerchantable		All conditions	
	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
Conifers								
White pine	5,800	14.1	4,800	9.0	10,010	15.2	20,610	12.9
Hemlock	9,030	22.0	7,240	13.5	9,460	14.4	25,730	15.9
Pitch pine	140	0.3	1,460	2.7	1,260	1.9	2,860	1.8
Other	200	0.5	10	*	70	0.1	280	0.2
All conifers	15,170	36.9	13,510	25.2	20,800	31.6	49,480	30.8
Hardwoods								
Red oak	3,320	8.1	4,790	8.9	9,150	13.9	17,260	10.8
White oak	2,430	5.9	3,970	7.4	8,200	12.5	14,600	9.1
Chestnut oak	910	2.2	2,020	3.8	1,810	2.8	4,740	3.0
Hard maple	3,710	9.0	5,180	10.0	3,990	6.1	12,880	8.0
Hickory	310	0.7	560	1.0	1,050	1.6	1,920	1.2
Subtotal	10,680	25.9	16,520	31.1	24,200	36.9	51,400	32.1
Red maple	3,440	8.4	5,520	10.2	2,800	4.3	11,760	7.3
Birch	1,920	4.7	1,450	2.7	1,920	2.9	5,290	3.3
Beech	5,110	12.4	5,960	11.0	4,350	6.6	15,420	9.6
Black cherry	1,810	4.4	2,250	4.2	970	1.5	5,030	3.1
Ash, basswood	2,120	5.2	6,980	13.0	3,510	5.4	12,610	7.9
Aspen	260	0.6	790	1.5	1,620	2.5	2,670	1.7
Others	620	1.5	600	1.1	5,440	8.3	6,660	4.2
Subtotal	15,280	37.2	23,550	43.7	20,610	31.5	59,440	37.1
All hardwoods	25,960	63.1	40,070	74.8	44,810	68.4	110,840	69.2
All species	41,130	100.0	53,580	100.0	65,610	100.0	160,320	100.0

*Negligible.

Table 10a. Current annual growth by principal species and forest conditions
Total volume

Species	Saw timber		Cordwood		Unmerchantable		All conditions	
	M cu.ft.	percent	M cu.ft.	percent	M cu.ft.	percent	M cu.ft.	percent
Conifers								
White pine	1,101	9.7	1,197	5.7	3,469	8.1	5,767	7.7
Hemlock	2,270	19.9	2,610	12.4	2,969	6.9	7,849	10.4
Pitch pine	27	0.2	258	1.2	508	1.2	793	1.1
Other	63	0.6	4	*	28	0.1	95	0.1
All conifers	3,461	30.4	4,069	19.3	6,974	16.3	14,504	19.3
Hardwoods								
Red oak	655	5.8	2,046	9.7	7,451	17.3	10,152	13.4
White oak	567	5.0	1,301	6.2	5,339	12.5	7,207	9.6
Chestnut oak	295	2.6	1,314	6.3	5,662	13.2	7,271	9.7
Hard maple	1.293	11.3	3,050	14.5	2,379	5.5	6,722	8.9
Hickory	214	1.9	312	1.5	756	1.8	1,282	1.7
Subtotal	3,024	26.6	8,023	38.2	21,587	50.3	32,634	43.3
Red maple	1,717	15.0	3,675	17.6	4,891	11.4	10,283	13.6
Birch	580	5.1	590	2.8	1,218	2.8	2,388	3.2
Beech	1,155	10.2	1,686	8.0	1,288	3.0	4,129	5.5
Black cherry	463	4.1	777	3.7	1,146	2.7	2,386	3.2
Ash, basswood	488	4.3	1,216	5.8	2,200	5.1	3,904	5.2
Aspen	64	0.6	604	2.9	1,266	3.0	1,934	2.6
Others	423	3.7	359	1.7	2,308	5.4	3,090	4.1
Subtotal	4,890	43.0	8,907	42.5	14,317	33.4	28,114	37.4
All hardwoods	7,914	69.6	16,930	80.7	35,904	83.7	60,748	80.7
All species	11,375	100.0	20,999	100.0	42,878	100.0	75,252	100.0

*Negligible

CARBON COUNTY

Table 1. Land use

Land use	Area acres	Proportion of class percent	Proportion of gross area percent
Forest 1/			
Tracts less than 10 acres	2,300	1.1	0.9
Tracts 10 up to 50 acres	6,700	3.3	2.6
Tracts 50 acres and over	195,900	95.6	75.3
All forest land	204,900	100.0	78.8
Nonforest			
Cropland 2/	28,700	52.1	11.1
Mine waste 1/	4,400	8.0	1.7
Water 2/	600	1.1	0.2
Other	21,400	38.8	8.2
All nonforest land	55,100	100.0	21.2
Gross area	260,000	100.0	100.0

1/ Based on aerial photographs taken in 1938 - 1939.

2/ Bureau of the Census, 1940.

Table 2.- Forest area by minor civil divisions

Civil division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Banks t., Beaver Meadow b.	8,100	1,200	6,900	85.2	3.4
East Penn t.	14,600	5,400	9,200	63.3	4.5
Franklin t., Parryville b., Weissport b.	10,800	5,500	5,300	49.2	2.6
Kidder t., East Side b.	47,800	1,600	46,200	96.6	22.5
Lausanne t.	3,900	800	3,100	80.5	1.5
Lehigh t., Weatherly b.	19,600	2,800	16,800	85.8	8.2
Lower Towamensing t., Bowmanstown b., and Palmerton b.	16,500	7,000	9,500	57.7	4.6
Mahoning t., Lehighton b.	17,300	10,400	6,900	39.8	3.4
Mauch Chunk t., Mauch Chunk b., Summit Hill b., East Mauch Chunk b., Lansford b.	28,400	3,500	24,900	87.6	12.2
Packer t.	20,100	3,300	16,800	83.6	8.2
Penn Forest t.	49,300	1,900	47,400	96.1	23.1
Towamansing t.	23,600	11,700	11,900	50.3	5.8
All civil divisions	260,000	55,100	204,900	78.8	100.0

1/ Abbreviations: t = township; b = borough.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
Northern hardwoods	700	7.3	6,400	19.8	17,300	10.6	24,400	11.9
Aspen, gray birch, pin cherry	--	--	300	0.9	5,100	3.1	5,400	2.6
White pine, hemlock	2,600	27.1	2,500	7.7	4,300	2.6	9,400	4.6
White pine, white oak, red oak	5,400	56.2	14,900	46.2	47,600	29.3	67,900	33.1
White oak, red oak, black oak	900	9.4	7,800	24.2	48,400	29.7	57,100	27.9
Chestnut oak	--	--	400	1.2	3,300	2.0	3,700	1.8
Scrub oak	--	--	--	--	37,000	22.7	37,000	18.1
All types	9,600	100.0	32,300	100.0	163,000	100.0	204,900	100.0

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	1,200	12.5	0.6
6,000 to 7,999	1,300	13.6	0.6
4,000 to 5,999	2,000	20.8	1.0
2,000 to 3,999	5,100	53.1	2.5
All saw timber	9,600	100.0	4.7
Cordwood 2/ (cords per acre)			
10.0 and over	8,700	26.9	4.3
5.0 to 9.9	23,600	73.1	11.5
All cordwood	32,300	100.0	15.8
All merchantable areas	41,900		20.5
All unmerchantable areas 3/	163,000		79.5
All forest land	204,900		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

CARBON COUNTY

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally 1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	11,500	11.0	3,160	4.6	40,400	82,200
6,000 to 7,999	7,900	7.6	2,590	3.8	33,200	67,500
4,000 to 5,999	8,500	8.2	3,210	4.7	41,100	83,700
2,000 to 3,999	13,500	13.0	6,220	9.1	79,400	161,500
All saw timber	41,400	39.8	15,180	22.2	194,100	394,900
Cordwood (cords per acre)						
10.0 and over	14,000	13.4	7,770	11.3	100,800	216,700
5.0 to 9.9	17,800	17.1	12,710	18.6	165,300	355,100
All cordwood	31,800	30.5	20,480	29.9	266,100	571,800
All merchantable areas	73,200	70.3	35,660	52.1	460,200	966,700
All unmerchantable areas	30,900	29.7	32,760	47.9	436,800	887,700
All forest land	104,100	100.0	68,420	100.0	897,000	1,854,400

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	19,300	46.5	5,280	34.8	62,100	32.0	109,500	27.7
Oaks, hickory, and hard maple	13,700	33.1	4,920	32.4	65,600	33.8	151,900	38.5
Other hardwoods	8,400	20.4	4,980	32.8	66,400	34.2	133,500	33.8
All species	41,400	100.0	15,180	100.0	194,100	100.0	394,900	100.0
Cordwood stands								
Conifers	12,800	40.4	4,420	21.6	52,000	19.5	99,100	17.3
Oaks, hickory, and hard maple	15,200	47.6	10,690	52.2	142,500	53.6	329,900	57.7
Other hardwoods	3,800	12.0	5,370	26.2	71,600	26.9	142,800	25.0
All species	31,800	100.0	20,480	100.0	266,100	100.0	571,800	100.0
All merchantable stands	73,200		35,660		460,200		966,700	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/		Oaks hickory, hard maple 2/		Other hardwoods 3/		All species	
inches	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	2,300	11.7					2,300	5.5
12	3,800	19.5	2,800	20.3	3,200	37.4	9,800	23.7
14	3,300	17.1	3,100	22.6	1,800	21.4	8,200	19.8
16	2,300	12.1	1,900	13.7	1,500	18.3	5,700	13.8
18	2,500	12.8	1,500	10.9	900	10.7	4,900	11.8
20	1,800	9.4	1,500	11.3	300	3.8	3,600	8.7
22 & up	3,300	17.4	2,900	21.2	700	8.4	6,900	16.7
All classes	19,300	100.0	13,700	100.0	8,400	100.0	41,400	100.0

1/ Principally hemlock and white pine with some pitch pine and red spruce.

2/ Principally red, white and chestnut oak, with some hard maple, hickory and black, scarlet and pin oak.

3/ Principally red maple, yellow birch and white ash, with some beech, black birch, black cherry, walnut, yellow poplar, sycamore, willow, black locust, basswood, and elm.

CARBON COUNTY

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Oaks and hickory 2/ and hard maple			Other hardwoods 3/			All species		
inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	250	5.7	5,600	490	4.6	15,200	450	8.3	11,900	1,190	5.8	32,700
8	1,540	34.9	34,600	3,930	36.7	121,000	2,440	45.5	65,000	7,910	38.6	220,600
10	1,220	27.6	27,400	3,280	30.7	101,300	1,440	26.9	38,400	5,940	29.0	167,100
12	800	18.0	17,800	2,180	20.4	67,300	370	6.8	9,700	3,350	16.4	94,800
14 & up	610	13.8	13,700	810	7.6	25,100	670	12.5	17,800	2,090	10.2	56,600
All classes	4,420	100.0	99,100	10,690	100.0	329,900	5,370	100.0	142,800	20,480	100.0	571,800

1/ Principally hemlock, white pine, and pitch pine with some red spruce.

2/ Principally red, white, and chestnut oak with some black, scarlet, and pin oak, hard maple and hickory.

3/ Principally red maple, aspen, yellow birch and black birch with some white ash, black cherry, basswood, yellow poplar, walnut, sycamore, willow, black locust, elm, red birch, black gum, beech, dogwood, and gray birch.

Table 1. Land use

Land use	Area	Proportion of class	Proportion of gross area
	acres	percent	percent
Forest 1/			
Tracts less than 10 acres	6,800	4.6	2.2
Tracts 10 up to 50 acres	11,900	8.0	3.8
Tracts 50 acres and over	129,400	87.4	41.4
All forest land	148,100	100.0	47.4
Nonforest			
Cropland 2/	108,800	66.2	34.8
Mine waste 1/	2,200	1.3	0.7
Water 2/	2,600	1.6	0.8
Other	50,900	30.9	16.3
All nonforest land	164,500	100.0	52.6
Gross area	312,600	100.0	100.0

1/ Based on aerial photographs taken in 1938 - 1939.

2/ Bureau of the Census, 1940.

Table 2. - Forest area by minor civil divisions

Civil Division 1/	Gross area acres	Nonforest area acres	Forest area acres	Proportion gross area in forest percent	Proportion of county forest land percent
Beaver t.	22,600	5,200	17,400	77.1	11.7
Benton t., Benton b.	12,900	8,400	4,500	35.2	3.0
Briar Creek t., Briar Creek b and Berwick b.	16,300	9,300	7,000	42.8	4.7
Catawissa t. and Catawissa b.	8,600	5,100	3,500	40.4	2.4
Cleveland t.	15,200	8,800	6,400	42.4	4.3
Conyngham t. and Ashland b. and Centralia b. 2/	13,600	2,000	11,600	85.2	7.8
Fishingcreek t. and Stillwater b.	20,600	11,200	9,400	45.7	6.3
Franklin t.	8,500	5,900	2,600	30.6	1.8
Greenwood t. and Millville b.	18,500	11,100	7,400	40.0	5.0
Hemlock t.	10,900	7,400	3,500	32.3	2.4
Jackson t.	12,500	5,900	6,600	53.0	4.5
Locust t.	11,300	7,700	3,600	31.5	2.4
Madison t.	22,800	13,300	9,500	41.6	6.4
Main t.	10,800	5,400	5,400	49.9	3.6
Mifflin t.	12,800	7,900	4,900	38.2	3.3
Montour t.	6,100	4,200	1,900	31.3	1.3
Mt. Pleasant t.	10,800	7,400	3,400	31.4	2.3
North Centre t.	10,400	7,100	3,300	32.2	2.2
Orange t, Orangeville b.	8,400	5,600	2,800	33.0	1.9
Pine t.	16,300	5,700	10,600	64.7	7.2
Roaring Creek t.	15,200	5,200	10,000	66.1	6.8
Scott t., Bloomsburg town	7,800	7,200	600	7.3	0.4
South Centre t.	2,800	2,700	100	4.6	0.1
Sugarloaf t.	16,900	4,800	12,100	71.6	8.2
All civil divisions	312,600	164,500	148,100	47.4	100.0

1/ Abbreviations: t. - township, b. - borough.

2/ Includes only that part of Ashland b. that is in Columbia County.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
Northern hardwoods	400	4.4	900	2.8	1,400	1.3	2,700	1.8
Aspen, gray birch, pin cherry	--	--	--	--	300	0.3	300	0.2
White pine, hemlock	1,500	16.5	2,200	6.8	4,500	4.2	8,200	5.5
White pine, white oak, red oak	5,200	57.1	22,500	69.1	66,800	62.7	94,500	63.9
White oak, red oak, black oak	1,800	19.8	6,200	19.1	26,700	25.1	34,700	23.4
Chestnut oak	200	2.2	700	2.2	4,500	4.2	5.400	3.6
Scrub oak	--	--	--	--	1,900	1.8	1.900	1.3
Other	--	--	--	--	400	0.4	400	0.3
All types	9,100	100.0	32,500	100.0	106,500	100.0	148,100	100.0

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	900	9.9	0.6
6,000 to 7,999	1,000	11.0	0.7
4,000 to 5,999	2,000	22.0	1.4
2,000 to 3,999	5,200	57.1	3.5
All saw timber	9,100	100.0	6.2
Cordwood 2/ (cords per acre)			
10.0 and over	12,000	36.9	8.1
5.0 to 9.9	20,500	63.1	13.8
All cordwood	32,500	100.0	21.9
All merchantable areas	41,600		28.1
All unmerchantable areas 3/	106,500		71.9
All forest land	148,100		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally) 1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	8,400	5.7	2,360	2.7	30,300	63,300
6,000 to 7,999	6,400	4.3	2,090	2.4	26,800	56,100
4,000 to 5,999	8,800	5.9	3,410	3.8	43,600	91,100
2,000 to 3,999	13,100	8.8	6,210	7.0	79,500	166,100
All saw timber	36,700	24.7	14,070	15.9	180,200	376,600
Cordwood (cords per acre)						
10.0 and over	16,700	11.2	9,840	11.1	129,000	279,700
5.0 to 9.9	17,000	11.4	12,160	13.8	159,500	346,100
All cordwood	33,700	22.6	22,000	24.9	288,500	625,800
All merchantable areas	70,400	47.3	36,070	40.8	468,700	1,002,400
All unmerchantable areas	78,400	52.7	52,370	59.2	698,200	1,483,600
All forest land	148,800	100.0	88,440	100.0	1,166,900	2,486,000

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	15,300	41.8	4,700	33.4	55,300	30.7	101,100	26.8
Oaks, hickory, and hard maple	15,700	42.6	6,430	45.7	85,700	47.5	198,500	52.8
Other hardwoods	5,700	15.6	2,940	20.9	39,200	21.8	77,000	20.4
All species	36,700	100.0	14,070	100.0	180,200	100.0	376,600	100.0
Cordwood stands								
Conifers	10,500	31.2	3,100	14.1	36,500	12.6	64,200	10.3
Oaks, hickory, and hard maple	19,900	58.9	14,190	64.5	189,200	65.6	439,300	70.2
Other hardwoods	3,300	9.9	4,710	21.4	62,800	21.8	122,300	19.5
All species	33,700	100.0	22,000	100.0	288,500	100.0	625,800	100.0
All merchantable stands	70,400		36,070		468,700		1,002,400	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/		Oaks, hickory, hard maple 2/		Other hardwoods 3/		All species	
inches	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	2,400	15.6					2,400	6.5
12	3,300	21.6	2,700	17.6	1,300	23.1	7,300	19.9
14	2,700	17.8	3,200	20.3	1,100	19.1	7,000	19.2
16	2,600	16.9	3,200	20.2	1,000	17.9	6,800	18.4
18	1,800	11.7	1,800	11.5	600	11.0	4,200	11.5
20	1,300	8,4	1,000	6.2	700	12.1	3,000	8.2
22 & up	1,200	8.0	3,800	24.2	1,000	16.8	6,000	16.3
All classes	15,300	100.0	15,700	100.0	5,700	100.0	36,700	100.0

1/ Principally hemlock and white pine with some pitch pine and red spruce.

2/ Principally red, white and chestnut oak, with some hard maple, hickory and black, scarlet and pin oak.

3/ Principally red maple, yellow birch and white ash, with some beech, black birch, black cherry, walnut, yellow poplar, sycamore, willow, black locust, basswood and elm.

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Hickory, oaks hard maple 2/			Other hardwoods			All species		
inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	90	2.9	1,900	540	3.8	16,700	330	7.1	8,700	960	4.4	27,300
8	1,240	39.9	25,600	4,830	34.0	149,300	2,100	44.4	54,300	8,170	37.1	229,200
10	970	31.2	20,000	4,540	32.0	140,600	1,420	30.2	36,900	6,930	31.5	197,500
12	430	14.0	9,000	1,940	13.7	60,200	410	8.7	10,600	2,780	12.6	79,800
14 & up	370	12.0	7,700	2,340	16.5	72,500	450	9.6	11,800	3,160	14.4	92,000
all classes	3,100	100.0	64,200	14,190	100.0	439,300	4,710	100.0	122,300	22,000	100.0	625,800

1/ Principally white pine and hemlock with some pitch pine and red spruce.

2/ Principally red, white, and chestnut oak with some black, scarlet, and pin oak, hard maple and hickory.

3/ Principally red maple, aspen, yellow birch and black birch with some white ash, black cherry, basswood, yellow poplar, walnut, sycamore, willow, black locust, elm, red birch, black gum, beech, dogwood, and gray birch.

DAUPHIN COUNTY

Table 1. Land use

Land use	Area	Proportion of class	Proportion of gross area
	acres	percent	percent
Forest 1/			
Tracts less than 10 acres	3,900	2.8	1.1
Tracts 10 up to 50 acres	4,900	3.6	1.4
Tracts 50 acres and over	128,300	93.6	36.6
All forest land	137,100	100.0	39.1
Nonforest			
Cropland 2/	114,200	53.5	32.6
Mine waste 1/	500	0.2	0.1
Water 2/	18,100	8.5	5.2
Other	80,900	37.8	23.0
All nonforest land	213,700	100.0	60.9
Gross area	350,800	100.0	100.0

1/ Based on aerial photographs taken in 1937 - 1938.

2/ Bureau of the Census, 1940.

Table 2. Forest area of each minor civil division

Civil division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Conewago t.	10,400	9,000	1,400	13.5	0.7
Derry t., Hummelstown b.	18,200	16,000	2,200	12.3	1.7
East Hanover t.	24,700	13,100	11,600	46.9	8.5
Halifax t., Halifax b.	20,500	14,500	6,000	29.3	4.4
Harrisburg c.	6,300	6,200	100	1.4	*
Jackson t.	25,300	7,700	17,600	69.8	13.0
Jefferson t.	14,300	1,900	12,400	86.8	9.2
Londonderry t., Royalton b.	17,100	14,900	2,200	12.8	1.6
Lower Paxton t.	18,600	15,300	3,300	17.6	2.4
Lower Swatara t., Highspire b., Middletown b.	10,700	10,600	100	0.7	*
Lykens t., Gratz b.	17,900	11,600	6,300	35.4	4.7
Middle Paxton t., Dauphin b.	36,700	16,100	20,600	56.2	15.2
Mifflin t., Berrysburg b., and Uniontown b.	10,400	7,900	2,500	23.9	1.8
Reed t.	5,600	3,500	2,100	37.5	1.6
Rush t.	15,600	400	15,200	97.3	11.2
South Hanover t.	7,500	7,100	400	6.0	*
Susquehanna t., Penbrook b.	11,300	8,100	3,200	28.4	2.4
Swatara t., Paxtang b., Steelton b.	11,200	10,600	600	5.1	*
Upper Paxton t., Millersburg b.	19,200	13,900	5,300	27.4	3.9
Washington t., Elizabethville b.	11,800	8,300	3,500	29.5	2.6
Wayne t.	9,300	4,900	4,400	46.6	3.2
West Hanover t.	14,700	9,600	5,100	34.8	3.8
Wiconisco t., Lykens b.	7,900	1,300	6,600	83.5	4.8
Williams t., Williamstown b.	5,600	1,200	4,400	78.7	3.3
All civil divisions	350,800	213,700	137,100	39.1	100.0

1/ Abbreviations: t = township; b = borough; c = city.

* Negligible

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
White pine, hemlock	1,000	10.3	300	0.9	2,200	2.3	3,500	2.6
White pine, white oak, red oak	1,300	13.4	4,600	14.3	10,300	10.8	16,200	11.8
White oak, red oak, black oak	6,400	66.0	20,600	64.3	54,600	57.3	81,600	59.5
Chestnut oak	900	9.3	6,400	19.9	12,700	13.3	20,000	14.6
Scrub oak	--	--	--	--	14,100	14.8	14,100	10.3
Other	100	1.0	200	0.6	1,400	1.5	1,700	1.2
All types	9,700	100.0	32,100	100.0	95,300	100.0	137,100	100.0

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	1,200	12.4	0.9
6,000 to 7,999	1,600	16.5	1.2
4,000 to 5,999	2,900	29.9	2.1
2,000 to 3,999	4,000	41.2	2.9
All saw timber	9,700	100.0	7.1
Cordwood 2/ (cords per acre)			
10.0 and over	9,500	29.6	6.9
5.0 to 9.9	22,600	70.4	16.5
All cordwood	32,100	100.0	23.4
All merchantable areas	41,800		30.5
All unmerchantable areas 3/	95,300		69.5
All forest land	137,100		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally 1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	11,300	10.3	2,990	3.9	39,300	86,400
6,000 to 7,999	9,900	9.0	3,300	4.3	43,300	95,300
4,000 to 5,999	14,300	13.0	5,340	6.9	70,000	153,900
2,000 to 3,999	11,600	10.5	5,600	7.3	73,100	160,900
All saw timber	47,100	42.8	17,230	22.4	225,700	496,500
Cordwood (cords per acre)						
10.0 and over	14,300	13.0	8,300	10.8	108,400	236,900
5.0 to 9.9	15,800	14.4	11,940	15.5	156,100	341,000
All cordwood	30,100	27.4	20,240	26.3	264,500	577,900
All merchantable areas	77,200	70.2	37,470	48.7	490,200	1,074,400
All unmerchantable areas	32,800	29.8	39,470	51.3	526,200	1,132,800
All forest land	110,000	100.0	76,940	100.0	1,016,400	2,207,200

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	9,700	20.6	2,490	14.5	29,300	13.0	52,900	10.7
Oaks and hickory	28,200	59.9	11,950	69.3	159,200	70.6	370,000	74.5
Other hardwoods	9,200	19.5	2,790	16.2	37,200	16.4	73,600	14.8
All species	47,100	100.0	17,230	100.0	225,700	100.0	496,500	100.0
Cordwood stands								
Conifers	7,500	25.0	3,460	17.1	40,700	15.4	72,100	12.5
Oaks and hickory	17,900	59.4	13,520	66.8	180,300	68.2	418,600	72.4
Other hardwoods	4,700	15.6	3,260	16.1	43,500	16.4	87,200	15.1
All species	30,100	100.0	20,240	100.0	264,500	100.0	577,900	100.0
All merchantable stands	77,200		37,470		490,200		1,074,400	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/		Oaks, hickory 2/		Other hardwoods 3/		All species	
(Inches)	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	900	9.4					900	1.9
12	1,500	15.6	3,100	11.0	1,900	21.0	6,500	13.8
14	1,800	18.2	4,300	15.2	1,800	19.3	7,900	16.8
16	1,400	14.1	4,700	16.8	1,600	17.8	7,700	16.3
18	1,700	17.2	4,500	16.0	1,100	12.4	7,300	15.5
20	1,000	10.5	3,900	13.9	1,000	10.3	5,900	12.5
22 & up	1,400	15.0	7,700	27.1	1,800	19.2	10,900	23.2
All classes	9,700	100.0	28,200	100.0	9,200	100.0	47,100	100.0

1/ Principally white pine, hemlock and pitch pine.

2/ Principally white, red, and black oaks, with some hickory and chestnut, scarlet and pin oaks.

3/ Principally red maple, black birch, yellow poplar and white ash with some walnut, aspen, black locust, sycamore, willow, basswood, elm and black gum.

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Oaks and hickory 2/			Other hardwoods 3/			All species		
inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	380	11.0	7,900	2,340	17.3	72,400	830	25.4	22,100	3,550	17.5	102,400
8	530	15.3	11,000	2,410	17.8	74,500	780	23.9	20,800	3,720	18.4	106,300
10	670	19.4	14,000	2,540	18.8	78,700	670	20.6	18,000	3,880	19.2	110,700
12	780	22.5	16,200	2,120	15.7	65,700	410	12.6	11,000	3,310	16.4	92,900
14 & up	1,100	31.8	23,000	4,110	30.4	127,300	570	17.5	15,300	5,780	28.5	165,600
All classes	3,460	100.0	72,100	13,520	100.0	418,600	3,260	100.0	87,200	20,240	100.0	577,900

1/ Principally white pine, hemlock, and pitch pine.

2/ Principally white, red, chestnut, and black oak, with some hickory, scarlet oak, and pin oak.

3/ Principally red maple, black birch, and white ash, with some yellow poplar, walnut, aspen, sycamore, willow, black locust, elm, yellow birch, red birch, basswood, black gum, and dogwood.

Table 1. Land use

Land use	Area	Proportion of class	Proportion of gross area
	acres	percent	percent
Forest 1/			
Tracts less than 10 acres	2,500	1.4	0.9
Tracts 10 up to 50 acres	9,700	5.0	3.3
Tracts 50 acres and over	180,200	93.6	61.4
All forest land	192,400	100.0	65.6
Nonforest			
Cropland 2/	39,300	38.9	13.4
Mine waste 1/	7,700	7.6	2.6
Water 2/	2,400	2.4	0.8
Other	51,600	51.1	17.6
All nonforest land	101,000	100.0	34.4
Gross area	293,400	100.0	100.0

1/ Based on aerial photographs taken in 1938 - 1939.

2/ Bureau of the Census, 1940.

Table 2. - Forest area by minor civil divisions

Civil division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Abington t.	3,100	1,800	1,300	42.9	0.7
Archbald b.	10,800	1,300	9,500	88.0	4.9
Benton t.	14,700	8,700	6,000	40.5	3.1
Carbondale t, Carbondale b., Mayfield b., Jermyn b.	13,100	3,300	9,800	74.5	5.1
Clifton t.	11,900	900	11,000	92.3	5.7
Covington t.	15,200	3,500	11,700	77.0	6.1
Dunmore b.	5,400	1,800	3,600	66.0	1.9
Fell t., Vandling b.	10,600	3,500	7,100	67.3	3.7
Glenburn t.	2,800	1,500	1,300	45.1	0.7
Greenfield t.	13,300	8,700	4,600	34.6	2.4
Jefferson t.	21,500	4,300	17,200	80.2	8.9
Lackawanna t.	3,400	500	2,900	85.7	1.5
LaPlume t., Dalton b.	3,600	2,700	900	25.7	0.5
Lehigh t.	13,700	900	12,800	93.7	6.7
Madison t., Moscow b.	12,700	4,800	7,900	62.0	4.1
Moosic b.	3,900	700	3,200	81.4	1.7
Newton t.	14,400	8,000	6,400	44.3	3.3
North Abington t.	6,000	3,400	2,600	43.9	1.4
Olyphant b.	3,600	900	2,700	75.3	1.4
Ransom t., Old Forge b.	14,300	5,300	9,000	62.7	4.7
Roaring Brook t., Elmhurst b.	15,800	2,100	13,700	86.7	7.1
Scott t., Blakely b., Dickson City b.	22,600	11,200	11,400	50.6	5.9
Scranton c.	12,500	8,400	4,100	32.7	2.1
South Abington t., Clarks Green b., Clarks Summit b.	6,800	4,100	2,700	39.4	1.4
Spring Brook t.	23,500	2,900	20,600	87.8	10.7
Taylor b.	3,500	1,900	1,600	45.3	0.8
Throop b.	3,200	700	2,500	78.3	1.3
West Abington t.	3,500	2,300	1,200	34.6	0.6
Winton b.	4,000	900	3,100	78.2	1.6
All civil divisions	293,400	101,000	192,400	65.6	100.0

1/ Abbreviaions: t. - township, b. - borough.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
Northern hardwoods	8,200	81.1	26,300	69.2	68,900	47.6	103,400	53.7
Aspen, gray birch, pin cherry	--	--	--	--	12,200	8.5	12,200	6.3
White pine, hemlock	200	2.0	800	2.1	1,500	1.0	2,500	1.3
White pine, white oak, red oak	300	3.0	1,200	3.2	1,600	1.1	3,100	1.6
White oak, red oak, black oak	1,400	13.9	9,500	25.0	37,900	26.3	48,800	25.4
Chestnut oak	--	--	200	0.5	1,100	0.8	1,300	0.7
Scrub oak	--	--	--	--	21,000	14.6	21,000	10.9
Other	--	--	--	--	100	0.1	100	0.1
All types	10,100	100.0	38,000	100.0	144,300	100.0	192,400	100.0

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	1,100	10.9	0.6
6,000 to 7,999	1,300	12.9	0.7
4,000 to 5,999	2,900	28.7	1.5
2,000 to 3,999	4,800	47.5	2.5
All saw timber	10,100	100.0	5.3
Cordwood 2/ (cords per acre)			
10.0 and over	11,300	29.7	5.9
5.0 to 9.9	26,700	70.3	13.9
All cordwood	38,000	100.0	19.8
All merchantable areas	48,100		25.1
All unmerchantable areas 3/	144,300		74.9
All forest land	192,400		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally) 1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	10,200	8.9	2,640	4.0	34,300	69,000
6,000 to 7,999	7,900	6.9	2,280	3.4	29,600	59,600
4,000 to 5,999	12,600	11.0	4,510	6.8	58,900	118,400
2,000 to 3,999	11,900	10.4	5,640	8.4	73,400	147,500
All saw timber	42,600	37.2	15,070	22.6	196,200	394,500
Cordwood (cords per acre)						
10.0 and over	17,700	15.5	10,120	15.2	133,500	270,600
5.0 to 9.9	24,200	21.2	16,590	24.8	218,800	443,400
All cordwood	41,900	36.7	26,710	40.0	352,300	714,000
All merchantable areas	84,500	73.9	41,780	62.6	548,500	1,108,500
All unmerchantable areas	29,900	26.1	24,910	37.4	332,100	660,100
All forest land	114,400	100.0	66,690	100.0	880,600	1,768,600

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally) :		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	10,900	25.6	3,040	20.2	35,800	18.2	69,200	17.5
Oaks, hickory, and hard maple	10,800	25.4	4,310	28.6	57,500	29.3	126,800	32.1
Other hardwoods	20,900	49.0	7,720	51.2	102,900	52.5	198,500	50.4
All species	42,600	100.0	15,070	100.0	196,200	100.0	394,500	100.0
Cordwood stands								
Conifers	7,800	18.7	2,460	9.2	29,000	8.2	53,400	7.5
Oaks, hickory, and hard maple	16,100	38.4	8,490	31.8	113,200	32.1	253,400	35.5
Other hardwoods	18,000	42.9	15,760	59.0	210,100	59.7	407,200	57.0
All species	41,900	100.0	26,710	100.0	352,300	100.0	714,000	100.0
All merchantable stands	84,500		41,780		548,500		1,108,500	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.) (inches)	Conifers 1/		Oaks, hickory, hard maple 2/		Other hardwoods 3/		All species	
	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	1,300	11.8					1,300	3.0
12	1,800	16.7	1,900	17.8	3,600	17.4	7,300	17.2
14	1,700	15.7	1,800	16.8	4,100	19.5	7,600	17.9
16	800	6.9	1,200	10.9	3,100	14.9	5,100	12.0
18	400	3.9	1,200	10.9	4,000	19.0	5.600	13.1
20	1,500	13.7	1,300	11.9	2,800	13.3	5.600	13.1
22 & up	3,400	31.3	3,400	31.7	3,300	15.9	10,100	23.7
All classes	10,900	100.0	10,800	100.0	20,900	100.0	42,600	100.0

1/ Principally hemlock and white pine, with some pitch pine and red spruce.

2/ Principally hard maple, red and white oak, with some hickory and chestnut, black, scarlet and pin oak.

3/ Principally beech, red maple, white ash and yellow birch, with some basswood, black cherry, walnut, sycamore, willow, black locust, elm and yellow poplar.

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Oaks, hickory, and hard maple 2/			Other hardwoods 3/			All species		
inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	750	30.3	16,200	2,330	27.5	69,700	5,420	34.4	140,100	8,500	31.9	226,000
8	710	28.9	15,400	2,160	25.4	64,400	4,730	30.0	122,200	7,600	28.4	202,000
10	480	19.7	10,500	1,830	21.6	54,700	3,070	19.5	79,400	5,380	20.2	144,600
12	300	12.3	6,600	930	10.9	27,600	1,390	8.8	35,800	2,620	9.8	70,000
14 & up	220	8.8	4,700	1,240	14.6	37,000	1,150	7.3	29,700	2,610	9.7	71,400
All classes	2,460	100.0	53,400	8,490	100.0	253,400	15,760	100.0	407,200	26,710	100.0	714,000

1/ Principally hemlock and white pine with some pitch pine and red spruce.

2/ Principally hard maple, white oak, and red oak with some black oak, scarlet oak, and hickory.

3/ Principally red maple, beech, yellow birch and black birch, with some black cherry, aspen, white ash, basswood, elm, red birch, gray birch, ironwood, dogwood, sycamore, walnut, willow, black gum, and black locust.

Table 1. Land use

Land use	Area	Proportion of class	Proportion of gross area
	acres	percent	percent
Forest 1/			
Tracts less than 10 acres	2,500	3.5	1.1
Tracts 10 up to 50 acres	3,200	4.4	1.4
Tracts 50 acres and over	67,600	92.1	29.1
All forest land	73,300	100.0	31.6
Nonforest			
Cropland 2/	109,700	69.2	47.3
Mine waste 1/	500	0.3	0.2
Water 2/	100	0.1	0.1
Other	48,300	30.4	20.8
All nonforest land	158,600	100.0	68.4
Gross area	231,900	100.0	100.0

1/ Based on aerial photographs taken in 1937, 1938 - 1940.

2/ Bureau of the Census, 1940.

Table 2. Forest area by minor civil divisions

Civil division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Annville t.	1,100	1,100	*	0.3	*
Bethel t.	22,400	14,200	8,200	36.6	11.3
Cold Spring t.	13,100	*	13,100	99.9	18.0
Cornwall b.	6,200	2,700	3,500	56.7	4.8
East Hanover t.	21,700	14,800	6,900	31.9	9.5
Heidelberg t.	15,600	12,200	3,400	22.0	4.1
Jackson t., Myerstown b.	15,800	13,200	2,600	16.7	3.6
Millcreek t., and Richland b.	13,600	9,000	4,600	33.8	6.3
North Annville t.	11,600	9,900	1,700	14.4	2.3
North Cornwall t., Cleona b., Lebanon Independent b., and Lebanon c.	9,500	9,400	100	0.9	*
North Lebanon t.	10,400	10,000	400	3.4	0.5
North Londonderry t., Palmyra b.	8,000	7,500	500	5.7	0.7
South Annville t.	12,400	10,100	2,300	18.3	3.1
South Lebanon t.	13,600	11,000	2,600	19.3	3.6
South Londonderry t., Mount Gretna b.	16,100	9,500	6,600	41.0	9.0
Swatara t., Jonestown b.	13,500	10,000	3,500	26.1	4.9
Union t.	21,500	11,400	10,100	47.1	13.9
West Cornwall t.	5,500	2,300	3,200	57.7	4.4
West Lebanon t.	300	300	*	3.1	*
All civil divisions	231,900	158,600	73,300	31.6	100.0

1/ Abbreviations: t - township; b - borough; c - city.

* Negligible.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
White pine, hemlock	100	2.6	200	1.3	500	0.9	800	1.1
White pine, white oak, red oak	700	17.9	1,000	6.6	7,800	14.4	9,500	13.0
White oak, red oak, black oak	3,000	76.9	10,300	68.3	36,500	67.2	49,800	67.9
Chestnut oak	100	2.6	3,600	23.8	8,300	15.3	12,000	16.4
Scrub oak	--	--	--	--	1,200	2.2	1,200	1.6
All types	3,900	100.0	15,100	100.0	54,300	100.0	73,300	100.0

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	350	9.0	0.5
6,000 to 7,999	500	12.8	9.7
4,000 to 5,999	450	11.5	0.6
2,000 to 3,999	2,600	66.7	3.5
All saw timber	3,900	100.0	5.3
Cordwood 2/ (cords per acre)			
10.0 and over	5,400	35.8	7.4
5.0 to 9.9	9,700	64.2	13.2
All cordwood	15,100	100.0	20.6
All merchantable areas	19,000		25.9
All unmerchantable areas 3/	54,300		74.1
All forest land	73,300		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally) 1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	3,200	7.2	820	2.4	10,800	23,900
6,000 to 7,999	3,500	7.8	1,140	3.3	15,100	33,100
4,000 to 5,999	1,900	4.3	710	2.0	9,300	20,500
2,000 to 3,999	5,800	12.9	3,040	8.8	40,000	88,100
All saw timber	14,400	32.2	5,710	16.5	75,200	165,600
Cordwood (cords per acre)						
10.0 and over	9,200	20.6	5,140	14.8	66,800	142,10(
5.0 to 9.9	5,700	12.7	4,660	13.4	60,700	129,100
All cordwood	14,900	33.3	9,800	28.2	127,500	271,200
All merchantable areas	29,300	65.5	15,510	44.7	202,700	436,800
All unmerchantable areas	15,400	34.5	19,160	55.3	255,400	540,300
All forest land	44,700	100.0	34,670	100.0	458,100	977,100

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	2,200	15.3	580	10.2	6,800	9.1	11,600	7.0
Oaks and hickory	9,300	64.6	4,250	74.4	56,700	75.3	131,600	79.5
Other hardwoods	2,900	20.1	880	15.4	11,700	15.6	22,400	13.5
All species	14,400	100.0	5,710	100.0	75,200	100.0	165,600	100.0
Cordwood stands								
Conifers	4,800	32.1	2,050	20.9	24,100	18.9	40,200	14.8
Oaks and hickory	7,400	50.0	5,900	60.2	78,700	61.7	182,700	67.4
Other hardwoods	2,700	17.9	1,850	18.9	24,700	19.4	48,300	17.8
All species	14,900	100.0	9,800	100.0	127,500	100.0	271,200	100.0
All merchantable stands	29,300		15,510		202,700		436,800	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/		Oaks, hickory, hard maple 2/		Other hardwoods 3/		All species	
	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	200	10.0					200	1.4
12	300	14.1	1,200	12.5	600	22.4	2,100	14.6
14	400	17.4	1,600	17.2	600	20.3	2,600	18.0
16	300	13.6	1,700	18.2	500	18.3	2,500	17.4
18	400	19.5	1,400	15.1	300	11.0	2,100	14.6
20	300	10.9	1,200	12.9	300	9.0	1,800	12.5
22 & up	300	14.5	2,200	24.1	600	19.0	3,100	21.5
All classes	2,200	100.0	9,300	100.0	2,900	100.0	14,400	100.0

1/ Principally white pine, hemlock, and pitch pine.

2/ Principally white, red, and black oaks, with some hickory and chestnut, scarlet, and pin oaks.

3/ Principally red maple, black birch, yellow poplar, and white ash, with some walnut, aspen, black locust, sycamore, willow, basswood, elm, and black gum.

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Oaks and hickory 2/			Other hardwoods 3/			All species		
inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	200	9.8	3,900	830	14.1	25,800	460	24.8	12,000	1,490	15.2	41,700
8	310	15.1	6,100	930	15.8	28,900	390	21.1	10,200	1,630	16.6	45,200
10	390	19.0	7,600	1,050	17.8	32,500	370	20.0	9,600	1,810	18.5	49,700
12	450	22.0	8,900	1,000	16.9	30,900	240	13.0	6,300	1,690	17.2	46,100
14 & up	700	34.1	13,700	2,090	35.4	64,600	390	21.1	10,200	3,180	32.5	88,500
All classes	2,050	100.0	40,200	5,900	100.0	182,700	1,850	100.0	48,300	9,800	100.0	271,200

1/ Principally white pine, hemlock, and pitch pine.

2/ Principally white, red, chestnut, and black oak, with some scarlet oak, pin oak, and hickory.

3/ Principally red maple, black birch, and white ash, with some yellow poplar, walnut, aspen, sycamore, willow, black locust, yellow birch, red birch, basswood, black gum, and dogwood.

Table 1. Land use

Land use	Area	Proportion of class	Proportion of gross area
	acres	percent	percent
Forest 1/			
Tracts less than 10 acres	6,800	1.7	1.2
Tracts 10 up to 50 acres	34,900	8.8	6.0
Tracts 50 acres and over	353,300	89.5	61.2
All forest land	395,000	100.0	68.4
Nonforest			
Cropland 2/	75,600	41.5	13.1
Mine waste 1/	18,500	10.2	3.2
Water 2/	7,700	4.2	1.3
Other	80,300	44.1	14.0
All nonforest land	182,100	100.0	31.6
Gross county area	577,100	--	100.0

1/ Based on aerial photographs taken in 1938 - 1939.

2/ Bureau of the Census, 1940.

Table 2. - Forest area by minor civil divisions

Civil Division 1/	Gross Area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Bear Creek t.	39,500	900	38,600	97.8	9.8
Black Creek t.	15,500	4,500	11,000	71.2	2.8
Buck t.	11,800	300	11,500	97.9	2.9
Butler t.	21,600	6,800	14,800	68.5	3.8
Conyngham t.	10,900	2,800	8,100	74.0	2.0
Dallas t., Dallas b.	13,800	8,400	5,400	38.8	1.4
Denison t.	23,700	1,400	22,300	94.0	5.7
Dorrance t.	17,100	4,900	12,200	71.3	3.1
Duryea b.	3,600	1,900	1,700	47.6	0.4
Exeter t., Exeter b.	11,500	5,200	6,300	54.7	1.6
Fairmount t.	28,700	8,200	20,500	71.6	5.2
Fairview t.	6,800	400	6,400	94.5	1.6
Foster t., Jeddo b., Freeland b., White Haven b.	30,100	5,400	24,700	82.1	6.3
Franklin t.	8,300	5,100	3,200	38.7	0.8
Hanover t., Sugar Notch b., Warrior Run b., Ashley b., Nanticoke c.	16,300	7,400	8,900	54.9	2.2
Hazel t., Hazleton c., West Hazleton b.	32,800	6,500	26,300	80.2	6.7
Hollenback t.	9,900	5,500	4,400	44.5	1.1
Hunlock t.	13,400	3,500	9,900	74.0	2.5
Huntington t., New Columbus b.	20,400	13,000	7,400	36.2	1.9
Jackson t.	8,200	3,300	4,900	59.6	1.2
Jenkins t., Yatesville b., Laflin b.	10,600	1,600	9,000	85.2	2.3
Kingston t., Kingston b., Larksville b., Courtdale b., Pringle b., Forty Fort b., Swoyerville b., Wyoming b., Luzerne b., Edwardsville b., W. Wyoming b.	21,100	13,200	7,900	37.3	2.0
Lake t.	20,100	5,300	14,800	73.5	3.8
Laurel Run b.	4,300	300	4,000	93.8	1.0
Lehman t.	15,700	6,800	8,900	56.6	2.2
Nescopeck t., Nescopeck b.	12,800	7,800	5,000	38.9	1.3
Newport t.	9,900	2,800	7,100	71.7	1.8
Pittston t., Pittston c., West Pittston b. Hughestown b., Dupont b., Avoca b.	12,400	4,300	8,100	65.0	2.0
Plains t.	10,500	3,000	7,500	71.2	1.9

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Table 2-Forest area by minor civil divisions

Civil Division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Plymouth t., Plymouth b.	11,500	3,900	7,600	66.0	1.9
Rice t., Nuangola b.	7,000	700	6,300	89.6	1.6
Ross t.	28,100	6,600	21,500	76.6	5.5
Salem t.	19,200	8,100	11,100	57.8	2.8
Slocum t.	6,600	1,500	5,100	76.6	1.3
Sugar Loaf t., Conyngham b.	13,900	6,700	7,200	51.8	1.8
Union t., Shickshinny b.	13,400	6,200	7,200	53.8	1.8
Wilkes-Barre t., Wilkes-Barre c.	6,400	6,200	200	3.7	*
Wright t.	9,700	1,700	8,000	82.3	2.0
All civil divisions	577,100	182,100	395,000	68.4	100.0

1/ Abbreviations: t. - township, b. - borough, c. - city.

*, Negligible.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
Northern hardwoods	3,000	17.5	8,900	15.1	15,500	4.9	27,400	6.9
Aspen, gray birch, pin cherry	--	--	200	0.3	13,000	4.1	13,200	3.3
White pine, hemlock	4,600	26.9	5,300	9.0	13,400	4.2	23,300	5.9
White pine, white oak, red oak	4,100	24.0	22,800	38.6	84,000	26.3	110,900	28.1
White oak, red oak, black oak	5,200	30.4	20,100	34.0	119,400	37.5	144,700	36.7
Chestnut oak	200	1.2	1,800	3.0	10,300	3.2	12,300	3.1
Scrub oak	--	--	--	--	63,200	19.8	63,200	16.0
All types	17,100	100.0	59,100	100.0	318,800	100.0	395,000	100.0

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	2,700	15.8	0.7
6,000 to 7,999	2,400	14.0	0.6
4,000 to 5,999	4,100	24.0	1.0
2,000 to 3,999	7,900	46.2	2.0
All saw timber	17,100	100.0	4.3
Cordwood 2/ (cords per acre)			
10.0 and over	15,600	26.4	4.0
5.0 to 9.9	43,500	73.6	11.0
All cordwood	59,100	100.0	15.0
All merchantable areas	76,200		19.3
All unmerchantable areas 3/	318,800		80.7
All forest land	395,000		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally) 1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	29,700	12.2	7,740	5.1	97,900	192,900
6,000 to 7,999	15,800	6.5	5,020	3.3	63,300	124,800
4,000 to 5,999	19,700	8.1	7,130	4.7	90,200	177,800
2,000 to 3,999	23,700	9.8	10,440	7.0	132,500	261,000
All saw timber	88,900	36.6	30,330	20.1	383,900	756,500
Cordwood (cords per acre)						
10.0 and over	25,200	10.4	14,000	9.3	182,900	390,500
5.0 to 9.9	35,800	14.7	25,600	17.0	333,800	712,500
All cordwood	61,000	25.1	39,600	26.3	516,700	1,103,000
All merchantable	149,900	61.7	69,930	46.4	900,600	1,859,500
All unmerchantable areas	93,200	38.3	80,820	53.6	1,077,700	2,149,800
All forest land	243,100	100.0	150,750	100.0	1,978,300	4,009,300

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	52,400	58.9	13,110	43.2	154,300	40.2	277,200	36.6
Oaks, hickory, and hard maple	21,300	24.0	7,670	25.3	102,300	26.6	233,800	30.9
Other hardwoods	15,200	17.1	9,550	31.5	127,300	33.2	245,500	32.5
All species	88,900	100.0	30,330	100.0	383,900	100.0	756,500	100.0
Cordwood stands								
Conifers	16,200	26.5	7,050	17.8	82,800	16.0	152,600	13.8
Oaks, hickory, and hard maple	35,000	57.4	21,860	55.2	291,400	56.4	670,600	60.8
Other hardwoods	9,800	16.1	10,690	27.0	142,500	27.6	279,800	25.4
All species	61,000	100.0	39,600	100.0	516,700	100.0	1,103,000	100.0
All merchantable stands	149,900		69,930		900,600		1,859,500	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.) (inches)	Conifers 1/		Oaks, hickory, hard maple 2/		Other hardwoods 3/		All species	
	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	7,000	13.4					7,000	7.9
12	9,400	18.0	2,900	13.7	3,700	24.6	16,000	18.0
14	7,500	14.3	2,800	13.0	3,600	23.3	13,900	15.6
16	7,000	13.3	3,200	14.8	2,400	15.8	12,600	14.2
18	4,600	8.7	2,100	9.9	3,000	19.9	9,700	10.9
20	4,300	8.3	2,800	13.2	1,200	7.6	8,300	9.3
22 & up	12,600	24.0	7,500	35.4	1,300	8.8	21,400	24.1
All classes	52,400	100.0	21,300	100.0	15,200	100.0	88,900	100.0

1/ Principally hemlock and white pine, with some pitch pine and red spruce.

2/ Principally red, white and chestnut oak with some hard maple, hickory and bla scarlet and pin oak.

3/ Principally red maple, yellow birch and white ash, with some beech, black birch, black cherry, walnut, yellow poplar, sycamore, willor, black locust, basswood and elm.

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Oaks, hickory, and hard maple 2/			Other hardwoods 3/			All species		
inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	2,450	34.8	53,100	6,010	27.5	184,400	4,400	41.2	115,300	12,860	32.5	352,800
8	2,450	34.7	52,900	5,930	27.1	181,800	2,880	26.9	75,300	11,260	28.4	310,000
10	720	10.2	15,600	4,590	21.0	140,800	1,980	18.5	51,700	7,290	18.4	208,100
12	750	10.6	16,200	2,840	13.0	87,200	760	7.1	19,900	4,350	11.0	123,300
14 & up	680	9.7	14,800	2,490	11.4	76,400	670	6.3	17,600	3,840	9.7	108,800
All classes	7,050	100.0	152,600	21,860	100.0	670,600	10,690	100.0	279,800	39,600	100.0	1,103,000

1/ Principally white pine and hemlock with some pitch pine and red spruce.

2/ Principally red, white, and chestnut oak with some black, scarlet, and pin oak, hard maple and hickory.

3/ Principally red maple, aspen, yellow birch and black birch with some white ash, black cherry, basswood, yellow poplar, walnut, sycamore, willow, black locust, elm, red birch, black gum, beech, dogwood, and gray birch.

MONROE COUNTY

Table 1. Land use

Land use	Area	Proportion of class	Proportion of gross area
	acres	percent	percent
Forest 1/			
Tracts less than 10 acres	4,300	1.4	1.1
Tracts 10 up to 50 acres	4,700	1.5	1.2
Tracts 50 acres and over	298,900	97.1	75.5
All forest land	307,900	100.0	77.8
Nonforest			
Cropland 2/	43,700	49.8	11.1
Water 2/	4,500	5.1	1.1
Other	39,500	45.1	10.0
All nonforest land	87,700	100.0	22.2
Gross area	395,600	100.0	100.0

1/ Based on aerial photographs taken in 1938-1939.

2/ Bureau of the Census, 1940.

Table 2. - Forest area by minor civil divisions

Civil division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Barrett t.	33,200	3,800	29,400	88.7	9.6
Chestnuthill t.	23,200	8,200	15,000	64.5	4.8
Coolbaugh t., Mt. Pocono b.	59,000	3,800	55,300	93.5	17.9
Eldred t.	17,600	6,400	11,200	63.4	3.6
Hamilton t.	26,100	11,200	14,900	56.9	4.8
Jackson t.	18,400	3,800	14,600	79.5	4.8
Middle Smithfield t.	34,800	7,600	27,200	78.3	8.8
Paradise t.	13,600	2,700	10,900	79.7	3.5
Pocono t.	22,300	4,600	17,700	79.3	5.8
Polk t.	18,900	6,200	12,600	66.8	4.1
Price t.	14,900	1,000	13,900	93.5	4.5
Ross t.	15,400	4,700	10,700	69.4	3.5
Smithfield t., Delaware Water Gap b.	17,100	7,400	9,700	57.0	3.2
Stroud t., E. Stroudsburg b., and Stroudsburg b.	23,200	10,700	12,500	53.8	4.1
Tobyhanna t.	33,700	3,700	30,000	89.2	9.8
Tunkhannock t.	24,200	1,900	22,300	92.2	7.2
All civil divisions	395,600	87,700	307,900	77.8	100.0

1/ Abbreviations: t. - township, b. - borough.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
Northern hardwoods	1,700	32.7	5,400	37.0	80,600	28.0	87,700	28.5
Aspen, gray birch, pin cherry	--	--	--	--	4,600	1.6	4,600	1.5
White pine, hemlock	1,200	23.1	3,300	22.6	29,800	10.3	34,300	11.1
White pine, white oak, red oak	700	13.5	2,600	17.8	33,000	11.5	36,300	11.8
White oak, red oak, black oak	1,500	28.8	3,200	21.9	94,000	32.6	98,700	32.1
Chestnut oak	--	--	--	--	5,000	1.7	5,000	1.6
Scrub oak	--	--	--	--	38,900	13.5	38,900	12.6
Other	100	1.9	100	0.7	2,200	0.8	2,400	0.8
All types	5,200	100.0	14,600	100.0	288,100	100.0	307,900	100.0

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	1,700	32.7	0.5
6,000 to 7,999	900	17.3	0.3
4,000 to 5,999	1,400	26.9	0.5
2,000 to 3,999	1,200	23.1	0.4
All saw timber	5,200	100.0	1.7
Cordwood 2/ (cords per acre)			
10.0 and over	5,200	35.6	1.7
5.0 to 9.9	9,400	64.4	3.0
All cordwood	14,600	100.0	4.7
All merchantable areas	19,800		6.4
All unmerchantable areas 3/	288,100		93.6
All forest land	307,900		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally) 1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	17,000	12.2	4,620	6.5	58,900	118,300
6,000 to 7,999	7,000	5.0	2,230	3.2	28,400	57,100
4,000 to 5,999	5,800	4.2	2,160	3.0	27,500	55,300
2,000 to 3,999	3,400	2.4	1,560	2.2	20,000	40,100
All saw timber	33,200	23.8	10,570	14.9	134,800	270,800
Cordwood (cords per acre)						
10.0 and over	8,300	5.9	4,700	6.6	61,500	130,800
5.0 to 9.9	8,000	5.7	5,590	7.8	73,000	155,200
All cordwood	16,300	11.6	10,290	14.4	134,500	286,000
All merchantable areas	49,500	35.4	20,860	29.3	269,300	557,000
All unmerchantable areas	90,300	64.6	50,310	70.7	670,800	1,343,800
All forest land	139,800	100.0	71,170	100.0	940,100	1,900,800

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	16,000	48.2	3,910	37.0	46,600	34.1	81,600	30.1
Oaks, hickory, and hard maple	9,900	29.8	3,540	33.5	47,200	35.0	108,600	40.1
Other hardwoods	7,300	22.0	3,120	29.5	41,600	30.9	80,600	29.8
All species	33,200	100.0	10,570	100.0	134,800	100.0	270,800	100.0
Cordwood stands								
Conifers	3,700	22.4	1,710	16.6	20,100	15.0	35,600	12.4
Oaks, hickory, and hard maple	8,200	50.7	5,720	55.6	76,300	56.7	175,500	61.4
Other hardwoods	4,400	26.9	2,860	27.8	38,100	28.3	75,100	26.2
All species	16,300	100.0	10,290	100.0	134,500	100.0	286,200	100.0
All merchantable stands	49,500		20,860		269,300		557,000	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.) (inches)	Conifers 1/		Oaks, hickory, hard maple 2/		Other hardwoods 3/		All species	
	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	2,200	13.7					2,200	6.6
12	2,900	18.1	2,200	22.2	1,900	26.0	7,000	21.1
14	3,100	19.5	2,300	23.2	1,600	21.9	7,000	21.1
16	2,800	17.5	2,100	21.2	1,400	19.2	6,300	19.0
18	2,100	13.1	1,700	17.2	1,000	13.7	4,800	14.5
20	1,700	10.6	800	8.1	700	9.6	3,200	9.6
22 & up	1,200	7.5	800	8.1	700	9.6	2,700	8.1
All classes	16,000	100.0	9,900	100.0	7,300	100.0	33,200	100.0

1/ Principally white pine, hemlock and pitch pine, with some red spruce.

2/ Principally white oak, red oak, and hard maple, with some hickory and chestnut, black, scarlet and pin oak.

3/ Principally red maple, beech, yellow birch and white ash, with some black cherry, black birch, walnut, basswood, elm, sycamore and willow.

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Oaks, hickory, and hard maple 2/			Other hardwoods 3/			All species		
inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	170	9.9	3,500	1,090	19.1	33,500	540	18.9	14,200	1,800	17.5	51,200
8	320	18.7	6,600	1,310	22.9	40,200	810	28.3	21,200	2,440	23.7	68,000
10	410	24.0	8,600	1,260	22.0	38,600	700	24.5	18,400	2,370	23.0	65,600
12	400	23.4	8,300	1,050	18.4	32,300	370	12.9	9,700	1,820	17.7	50,300
14 & up	410	24.0	8,600	1,010	17.6	30,900	440	15.4	11,600	1,860	18.1	51,100
All classes	1,710	100.0	35,600	5,720	100.0	175,500	2,860	100.0	75,100	10,290	100.0	286,200

1/ Principally white pine, hemlock, and pitch pine, with some red spruce.

2/ Principally white, red, and chestnut oak, and hard maple, with some hickory and black oak, scarlet oak, and pin oak.

3/ Principally red maple, yellow birch, beech, and white ash, with some black cherry, black birch, walnut, basswood, elm, sycamore, willow, and aspen.

MONTOUR COUNTY

Table 1. Land use

Land use	Area	Proportion of class	Proportion of gross area
	acres	percent	percent
Forest 1/			
Tracts less than 10 acres	1,400	6.0	1.7
Tracts 10 up to 50 acres	2,000	8.6	2.4
Tracts 50 acres and over	19,800	85.4	23.7
All forest land	23,200	100.0	7.8
Nonforest			
Crop land 2/	42,300	70.1	50.6
Water 2/	800	1.3	1.0
Other	17,300	28.6	20.6
All nonforest land	60,400	100.0	72.2
Gross area	83,600	100.0	100.0

1/ Based on aerial photographs taken in 1938.

2/ Bureau of the Census, 1940.

Table 2. Forest area by minor civil divisions

Civil division 1/	Gross area	Nonforest area	Forest area	Proportion gross area	Proportion of county forest land
	acres	acres	acres	percent	percent
Anthony t.	16,500	12,300	4,200	25.7	18.2
Cooper t.	4,500	3,400	1,100	23.5	4.6
Derry t., Washingtonville b.	10,500	8,200	2,300	21.6	9.8
Liberty t.	17,200	11,900	5,300	31.1	23.0
Limestone t.	8,500	7,800	700	8.6	3.2
Mahoning t., Danville b.	6,700	4,100	2,600	38.1	10.9
Mayberry t.	4,500	3,200	1,300	29.6	5.7
Valley t.	10,300	6,200	4,100	40.1	17.9
West Hemlock t.	4,900	3,300	1,600	32.1	6.7
All civil divisions	83,600	60,400	23,200	27.8	100.0

1/ Abbreviations: t = township; b = borough.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
White pine, hemlock	*	*	100	5.9	300	1.4	400	1.7
White pine, white oak, red oak	*	*	*	*	100	0.5	100	0.4
White oak, red oak, black oak	300	100.0	1,600	94.1	20,800	98.1	22,700	97.9
All types	300	100.0	1,700	100.0	21,200	100.0	23,200	100.0

* Negligible.

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	20	6.7	0.1
6,000 to 7,999	30	10.0	0.1
4,000 to 5,999	20	6.7	0.1
2,000 to 3,999	230	76.6	1.0
All saw timber	300	100.0	1.3
Cordwood 2/ (cords per acre)			
10.0 and over	200	11.8	0.9
5.0 to 9.9	1,500	88.2	6.4
All cordwood	1,700	100.0	7.3
All merchantable areas	2,000		8.6
All unmerchantable areas 3/	21,200		91.4
All forest land	23,200		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally) 1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	170	2.1	40	0.7	500	1,200
6,000 to 7,999	210	2.6	70	1.2	900	2,100
4,000 to 5,999	110	1.4	40	0.7	500	1,200
2,000 to 3,999	510	6.2	250	4.5	3,400	7,500
All saw timber	1,000	12.3	400	7.1	5,300	12,000
Cordwood (cords per acre)						
10.0 and over	300	3.7	150	2.7	2,000	4,300
5.0 to 9.9	1,100	13.6	820	14.6	10,800	23,900
All cordwood	1,400	17.3	970	17.3	12,800	28,200
All merchantable areas	2,400	29.6	1,370	24.4	18,100	40,200
All unmerchantable areas	5,700	70.4	4,240	75.6	56,500	124,200
All forest land	8,100	100.0	5,610	100.0	74,600	164,400

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	100	10.0	10	2.5	100	2.3	200	1.7
Oaks and hickory	700	70.0	330	82.5	4,400	82.7	10,200	85.0
Other hardwoods	200	20.0	60	15.0	800	15.0	1,600	13.3
All species	1,000	100.0	400	100.0	5,300	100.0	12,000	100.0
Cordwood stands								
Conifers	200	17.0	100	10.3	1,200	9.2	1,900	6.7
Oaks and hickory	1,000	70.0	750	77.3	10,000	78.3	28,200	82.3
Other hardwoods	200	13.0	120	12.4	1,600	12.5	3,100	11.0
All species	1,400	100.0	970	100.0	12,800	100.0	18,200	100.0
All merchantable stands	2,400		1,370		18,100		40,200	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Oaks and hickory 2/			Other hardwoods 3/			All species		
inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	10	15.0	300	170	22.0	5,100	30	25.8	800	210	21.7	6,200
8	20	18.0	300	160	21.5	5,000	40	31.7	1,000	220	22.6	6,300
10	20	20.0	400	150	20.0	4,600	30	20.0	600	200	20.6	5,600
12	20	20.0	400	100	14.0	3,300	10	10.8	300	130	13.4	4,000
14 & up	30	27.0	500	170	22.5	5,200	10	11.7	400	210	21.7	6,100
All classes	100	100.0	1,900	750	100.0	23,200	120	100.0	3,100	970	100.0	28,200

1/ Principally white pine, hemlock, and pitch pine, with some Virginia pine.

2/ Principally white, red, and chestnut oak, with some hickory and black and scarlet oaks.

3/ Principally red maple and black birch, with some walnut, aspen, sycamore, willow, black locust, elm, yellow birch, red birch, basswood, black gum, dogwood, and beech.

NORTHUMBERLAND COUNTY

Table 1. Land use

Land use	Area	Proportion of class	Proportion of gross area
	acres	percent	percent
Forest 1/			
Tracts less than 10 acres	4,100	3.2	1.3
Tracts 10 up to 50 acres	8,900	7.4	3.0
Tracts 50 acres and over	108,700	89.4	36.2
All forest land	121,700	100.0	40.5
Nonforest			
Cropland 2/	102,000	57.1	34.0
Mine waste 1/	5,600	3.1	1.8
Water 2/	10,500	5.9	3.5
Other	60,700	33.9	20.2
All nonforest land	178,800	100.0	59.5
Gross area	300,500	100.0	100.0

1/ Based on aerial photographs taken in 1938 - 39.

3/ Bureau of the Census, 1940.

Table 2. - Forest area by minor civil divisions

Civil division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Coal t., Shamokin b.	17,400	4,000	13,400	76.9	11.0
Delaware t., McEwensville b., Watsontown b.	20,200	14,700	5,500	27.0	4.5
E. Cameron t.	7.600	1,200	6,400	84.4	5.3
E. Chillisquaque t.	4,900	3,800	1,100	21.6	0.9
Gearhart t., and Riverside b.	3,800	2,600	1,200	32.3	1.0
Jackson t., Herndon b.	9,400	6,500	2,900	30.5	2.4
Jordan t.	10,900	7,000	3,900	35.6	3.2
Lewis t., Turbotville b.	17,100	14,000	3,100	18.3	2.6
Little Mahanoy t.	7,100	1,900	5,200	73.7	4.3
Lower Augusta t.	13,100	8,300	4,800	36.6	4.0
Lower Mahanoy t.	16,500	12,400	4,100	24.8	3.4
Mt. Carmel t., Kulpmont b., Marion Hts. b., and Mt. Carmel b.	14,500	4,200	10,300	70.8	8.4
Point t., Northumberland b.	18,200	10,600	7,600	41.5	6.2
Ralpho t.	11,900	7,800	4,100	34.9	3.4
Rockefeller t.	12,800	9,600	3,200	25.1	2.6
Rush t.	16,900	11,200	5,700	33.8	4.7
Shamokin t., Snydertown b.	21,800	13,000	8,800	40.3	7.2
Turbut t., Milton b.	10,400	9,200	1,200	12.0	1.0
Upper Augusta t., Sunbury c.	15,700	10,400	5,300	33.5	4.3
Upper Mahonoy t.	14,600	9,400	5,200	35.4	4.2
Washington t.	11,600	8,200	3,400	29.5	2.8
W. Cameron t.	7,800	1,000	6,800	87.7	5.6
W. Chillisquaque t.	9,100	7,100	2,000	21.8	1.6
Zerbe t.	7,200	700	6,500	90.2	5.4
All civil divisions	300,500	178,800	121,700	40.5	100.0

1/ Abbreviations: t. - township, b. - borough, c. - city.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
White pine, hemlock	100	6.2	300	3.3	400	0.4	800	0.7
White pine, white oak, red oak	500	31.3	3,400	37.8	27,800	25.0	31,700	26.0
White oak, red oak, black oak	900	56.3	4,400	48.9	60,400	54.4	65,700	54.0
Chestnut oak	--	--	700	7.8	19,100	17.2	19,800	16.3
Scrub oak	--	--	--	--	1,700	1.5	1,700	1.4
Other	100	6.2	200	2.2	1,700	1.5	2,000	1.6
All types	1,600	100.0	9,000	100.0	111,100	100.0	121,700	100.0

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	130	8.1	0.1
6,000 to 7,999	150	9.4	0.1
4,000 to 5,999	260	16.2	0.2
2,000 to 3,999	1,060	66.3	0.9
All saw timber	1,600	100.0	1.3
Cordwood 2/ (cords per acre)			
10.0 and over	1,700	18.9	1.4
5.0 to 9.9	7,300	81.1	6.0
All cordwood	9,000	100.0	7.4
All merchantable areas	10,600		8.7
All unmerchantable areas 3/	111,100		91.3
All forest land	121,700		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally) 1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	1,200	2.6	320	1.1	4,200	9,200
6,000 to 7,999	1,000	2.2	330	1.1	4,300	9,400
4,000 to 5,999	1,100	2.4	410	1.4	5,400	11,700
2,000 to 3,999	2,700	5.9	1,300	4.3	17,100	37,100
All saw timber	6,000	13.1	2,360	7.9	31,000	67,400
Cordwood (cords per acre)						
10.0 and over	2,600	5.7	1,510	5.1	19,400	40,300
5.0 to 9.9	5,400	11.8	3,980	13.3	51,200	106,300
All cordwood	8,000	17.5	5,490	18.4	70,600	146,600
All merchantable areas	14,000	30.6	7,850	26.3	101,600	214,00
All unmerchantable areas	31,700	69.4	21,940	73.7	292,500	598,900
All forest land	45,700	100.0	29,790	100.0	394,100	812,900

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	1,200	20.0	320	13.6	3,800	12.1	6,100	9.0
Oaks and hickory	3,600	60.0	1,680	71.1	22,400	72.4	52,000	77.2
Other hardwoods	1,200	20.0	360	15.3	4,800	15.5	9,300	13.8
All species	6,000	100.0	2,360	100.0	31,000	100.0	67,400	100.0
Cordwood stands								
Conifers	3,600	45.3	1,680	30.6	19,800	28.0	32,000	21.8
Oaks and hickory	3,400	42.2	3,080	56.1	41,100	58.2	95,400	65.1
Other hardwoods	1,000	12.5	730	13.3	9,700	13.8	19,200	13.1
All species	8,000	100.0	5,490	100.0	70,600	100.0	146,600	100.0
All merchantable stands	14,000		7,850		101,600		214,000	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/		Oaks, hickory, hard maple 2/		Other hardwoods 3/		All species	
	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	200	12.5					200	3.3
12	200	14.2	500	12.8	300	22.5	1,000	16.7
14	200	15.8	600	15.8	200	20.0	1,000	16.7
16	200	15.0	600	18.1	200	17.5	1,000	16.7
18	200	20.0	500	14.4	200	13.3	900	15.0
20	100	12.5	500	13.3	100	9.2	700	11.6
22 & up	100	10.0	900	25.6	200	17.5	1,200	20.0
All classes	1,200	100.0	3,600	100.0	1,200	100.0	6,000	100.0

1/ Principally white pine, hemlock, and pitch pine.

2/ Principally white and red oak, with some hickory and chestnut, black, and scarlet oak.

3/ Principally red maple, black birch, and white ash, with some walnut, black locust, sycamore, willow, basswood, elm, and black gum.

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d. b. h.)	Conifers 1/			Oaks and hickory 2/			Other hardwoods 3/			All species		
inches	M cu. ft.	percent	tons	M cu. ft.	percent	tons	M cu. ft.	percent	tons	M cu. ft.	percent	tons
6	190	11.3	3,600	670	21.8	20,800	230	31.5	6,100	1,090	19.8	30,500
8	270	16.1	5,200	630	20.5	19,500	170	23.3	4,500	1,070	19.5	29,200
10	370	22.0	7,000	520	16.9	16,100	130	17.8	3,400	1,020	18.6	26,500
12	430	25.6	8,200	490	15.9	15,200	100	13.7	2,600	1,020	18.6	26,000
14 & up	420	25.0	8,000	770	25.0	23,800	100	13.7	2,600	1,290	23.5	34,400
All classes	1,680	100.0	32,000	3,080	100.0	95,400	730	100.0	19,200	5,490	100.0	146,600

1/ Principally white pine, hemlock and pitch pine, with some Virginia pine.

2/ Principally white, red, and chestnut oak with some black oak and scarlet oak.

3/ Principally red maple and black birch with some walnut, aspen, sycamore, willow, black locust, elm, yellow birch, red birch, basswood, black gum, dogwood, and beech.

PIKE COUNTY

Table 1. Land use

Land use	Area	Proportion of class	Proportion of gross area
	acres	percent	percent
Forest 1/			
Tracts less than 10 acres	1,100	0.3	0.3
Tracts 10 up to 50 acres	1,400	0.5	0.4
Tracts 50 acres and over	314,700	99.2	88.1
All forest land	317,200	100.0	88.8
Nonforest			
Cropland 2/	7,700	19.3	2.2
Water 2/	8,100	20.3	2.3
Other	24,100	60.4	6.7
All nonforest land	39,900	100.0	11.2
Gross area	357,100	100.0	100.0

1/ Based on aerial photographs taken in 1938 - 1939.

2/ Bureau of the Census, 1940.

Table 2. - Forest area by minor civil divisions

Civil division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Blooming Grove t.	48,200	2,200	46,000	95.4	14.5
Delaware t.	29,200	3,400	25,800	88.4	8.1
Dingman t.	36,800	4,600	32,200	87.6	10.2
Greene t.	38,300	5,600	32,700	85.3	10.3
Lackawaxen t.	51,000	6,700	44,300	86.9	14.0
Lehman t.	31,400	5,500	25,900	82.4	8.2
Milford t., Milford b.	8,600	1,500	7,100	82.7	2.2
Palmyra t.	25,500	4,500	21,000	82.2	6.6
Porter t.	38,800	1,300	37,500	96.7	11.8
Shohola t.	28,900	2,200	26,700	92.2	8.4
Westfall t., Matamoras b.	20,400	2,400	18,000	88.2	5.7
All civil divisions	357,100	39,900	317,200	88.8	100.0

1/ Abbreviations: t. - township, b. - borough.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
Northern hardwoods	1,000	26.3	5,100	17.3	17,700	6.2	23,800	7.5
White pine, hemlock	1,400	36.8	5,400	18.4	24,100	8.5	30,900	9.7
White pine, red oak, white oak	900	23.7	9,700	33.0	90,800	32.0	101,400	32.0
White oak, red oak, black oak	500	13.2	9,000	30.6	145,200	51.1	154,700	48.8
Chestnut oak	--	--	--	--	100	0.1	100	0.1
Scrub oak	--	--	--	--	2,500	0.9	2,500	0.8
Other	--	--	200	0.7	3,600	1.3	3,800	1.2
All types	3,800	100.0	29,400	100.0	284,000	100.0	317,200	100.0

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	11,900	48.8	2,340	30.4	27,500	27.8	49,100	24.4
Oaks, hickory, and hard maple	6,600	27.0	2,960	38.4	39,500	39.9	89,700	44.4
Other hardwoods	5,900	24.2	2,400	31.2	32,000	32.3	62,800	31.2
All species	24,400	100.0	7,700	100.0	99,000	100.0	201,600	100.0
Cordwood stands								
Conifers	12,000	35.0	5,530	25.8	65,100	23.5	118,200	20.2
Oaks, hickory, and hard maple	15,600	45.8	11,650	54.4	155,300	56.1	355,200	60.6
Other hardwoods	6,600	19.2	4,240	19.8	56,500	20.4	112,200	19.2
All species	34,200	100.0	21,420	100.0	276,900	100.0	585,600	100.0
All merchantable stands	58,600		29,120		375,900		787,200	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/		Oaks, hickory, hard maple 2/		Other hardwoods 3/		All species	
(inches)	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	1,300	10.9					1,300	5.3
12	1,600	13.4	1,400	21.2	1,300	22.1	4,300	17.6
14	1,800	15.1	1,400	21.2	1,000	16.9	4,200	17.2
16	2,000	16.8	1,400	21.2	1,100	18.6	4,500	18.5
18	2,000	16.8	900	13.6	1,100	18.6	4,000	16.4
20	1,400	11.8	600	9.2	700	11.9	2,700	11.1
22 and up	1,800	15.2	900	13.6	700	11.9	3,400	13.9
All classes	11,900	100.0	6,600	100.0	5,900	100.0	24,400	100.0

1/ Principally white pine, hemlock and pitch pine, with some red spruce.

2/ Principally white oak, red oak, and hard maple, with some hickory and chestnut, black, scarlet and pin oaks.

3/ Principally red maple, beech, yellow birch, and white ash, with some black cherry, black birch, walnut, basswood, elm, sycamore and willow.

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Oaks, hickory, and hard maple 2/			Other hardwoods 3/			All species		
inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	390	7.1	8,400	1,820	15.6	55,400	720	17.0	19,100	2,930	13.7	82,900
8	840	15.2	18,000	2,640	22.7	80,600	1,240	29.2	32,800	4,720	22.0	131,400
10	1,500	27.1	32,000	2,500	21.5	76,400	800	18.9	21,200	4,800	22.4	129,600
12	1,440	26.0	30,700	2,530	21.7	77,100	630	14.9	16,700	4,600	21.5	124,500
14 & up	1,360	24.6	29,100	2,160	18.5	65,700	850	20.0	22,400	4,370	20.4	117,200
All classes	5,530	100.0	118,200	11,650	100.0	355,200	4,240	100.0	112,200	21,420	100.0	585,600

1/ Principally white pine, hemlock, and pitch pine, with some red spruce.

2/ Principally white, red, and chestnut oak and hard maple, with some hickory and black oak, scarlet oak, and pin oak.

3/ Principally red maple, yellow birch, beech, and white ash, with some black cherry, black birch, walnut, basswood, elm, sycamore, willow, and aspen.

Table 1. Land use

Land use	Area	Proportion of class	Proportion of gross area
	acres	percent	percent
Forest 1/			
Tracts less than 10 acres	4,000	1.2	0.8
Tracts 10 up to 50 acres	10,000	2.9	2.0
Tracts 50 acres and over	330,000	95.9	65.7
All forest land	344,000	100.0	68.5
Nonforest			
Cropland. 2/	95,300	60.3	19.0
Mine waste 1/	20,400	12.9	4.1
Water 2/	400	0.3	0.1
Other	41,800	26.5	8.3
All nonforest land	157,900	100.0	31.5
Gross	501,900	100.0	100.0

1/ Based on aerial photographs taken in 1938 - 1939.

2/ Bureau of the Census, 1940.

Table 2. - Forest area by minor civil divisions

Civil division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Barry t.	12,500	4,700	7,800	62.4	2.3
Blythe t., Middleport b., New Philadelphia b.	19,700	1,800	17,900	90.7	5.2
Branch t., Minersville b.	7,700	1,300	6,400	83.4	1.9
Butler t., Ashland b.,2/ Girardville b., Gordon b.	16,700	3,600	13,100	78.3	3.8
Cass t.	9,000	1,600	7,400	82.4	2.1
Delano t.	4,900	500	4,400	90.2	1.3
E. Brunswick t., New Ringgold b.	20,400	9,000	11,400	56.0	3.3
E. Norwegian t., Mechanicsville b., Palo Alto b., St.Clair b., Port Carbon b.	4,800	1,900	2,900	60.3	0.8
E. Union t.	16,400	3,300	13,100	80.0	3.8
Eldred t.	14,900	7,400	7,500	50.5	2.2
Foster t.	8,200	400	7,800	95.2	2.3
Frailey t.	5,900	100	5,800	98.7	1.7
Hegins t.	20,200	5,400	14,800	73.1	4.3
Hubley t.	8,600	4,300	4,300	50.2	1.2
Kline t., McAdoo b.	8,100	1,700	6,400	79.5	1.9
Mahanoy t., Mahanoy City b.	14,900	4,600	10,300	68.8	3.0
New Castle t.	7,800	400	7,400	94.3	2.1
N. Manheim t., Mt.Carbon b., Cressona b., Schuylkill Haven b.	15,300	6,900	8,400	54.9	2.4
N. Union t.	13,500	4,000	9,500	70.0	2.8
Norwegian t., Pottsville c.	6,200	2,400	3,800	61.6	1.1
Pine Grove t., Pine Grove b.	25,100	8,100	17,000	67.7	4.9
Porter t., Tower City b.	11,800	2,000	9,800	83.2	2.9
Rahn t., Coaldale b.	6,800	1,000	5,800	84.6	1.7
Reilly t.	10,400	500	9,900	95.5	2.9
Rush t.	15,500	4,600	10,900	70.4	3.2
Ryan t.	11,300	2,700	8,600	76.2	2.5
Schuylkill t., Tamaqua b.	7,400	1,000	6,400	86.8	1.9
S. Manheim b., Auburn b., Landingville b.	15,200	6,500	8,700	57.1	2.5
Tremont t., Tremont b.	15,600	500	15,100	96.7	4.4
Union t., Ringtown b.	14,500	5,900	8,600	59.2	2.5
Upper Mahantango t.	9,500	6,300	3,200	34.0	0.9
Walker t.	14,300	3,300	11,000	77.0	3.2
Washington t.	20,200	10,500	9,700	48.0	2.8
Wayne t.	22,100	10,600	11,500	51.8	3.3

SCHUYLKILL

Table 2.-Forest area by minor civil divisions

Civil Division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
W. Brunswick t., Deer Lake b., Port Clinton b., Orwigsburg b.	22,000	10,800	11,200	51.0	3.3
W. Mahanoy t., Shenandoah b., Frackville b., Gilberton b.	7,400	3,300	4,100	55.3	1.2
W. Pehn t.	37,100	15,000	22,100	59.6	6.4
All civil divisions	501,900	157,900	344,000	68.5	100.0

1/Abbreviations: t. - township, b. - borough, c. - city.

2/ Includes only that part of Ashland b. that is in Schuylkill County.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
White pine, hemlock	200	5.3	400	2.9	5,600	1.7	6,200	1.8
White pine, red oak, black oak	3,100	81.6	9,700	69.2	152,800	46.9	165,600	48.2
White oak, red oak, black oak	300	7.9	2,600	18.6	81,300	24.9	84,200	24.5
Chestnut oak	100	2.6	1,100	7.9	34,700	10.6	35,900	10.4
Scrub oak	--	--	--	--	50,000	15.3	50,000	14.5
Other	100	2.6	200	1.4	1,800	0.6	2,100	0.6
All types	3,800	100.0	14,000	100.0	326,200	100.0	344,000	100.0

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	600	15.8	0.2
6,000 to 7,999	300	7.9	0.1
4,000 to 5,999	1,000	26.3	0.3
2,000 to 3,999	1,900	50.0	0.5
All saw timber	3,800	100.0	1.1
Cordwood 2/ (cords per acre)			
10.0 and over	2,200	15.7	0.6
5.0 to 9.9	11,800	84.3	3.5
All cordwood	14,000	100.0	4.1
All merchantable areas	17,800		5.2
All unmerchantable areas 3/	326,200		94.8
All forest land	344,000		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet), but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally 1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	6,200	6.4	1,640	2.3	20,400	38,800
6,000 to 7,999	2,200	2.3	730	1.0	9,000	17,200
4,000 to 5,999	4,500	4.7	1,680	2.4	20,900	39,700
2,000 to 3,999	4,500	4.7	2,170	3.0	26,900	51,300
All saw timber	17,400	18.1	6,220	8.7	77,200	147,000
Cordwood (cords per acre)						
10.0 and over	3,500	3.6	2,000	2.8	25,400	52,700
5.0 to 9.9	8,200	8.5	6,170	8.7	78,800	163,100
All cordwood	11,700	12.1	8,170	11.5	104,200	215,800
All merchantable areas	29,100	30.2	14,390	20.2	181,400	362,800
All unmerchantable areas	67,200	69.8	56,940	79.8	759,200	1,434,800
All forest land	96,300	100.0	71,330	100.0	940,600	1,797,600

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally) :		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	8,500	48.9	3,650	58.7	42,900	55.6	75,100	51.1
Oaks and hickory	6,600	37.9	1,130	18.2	15,100	19.5	35,000	23.8
Other hardwoods	2,300	13.2	1,440	23.1	19,200	24.9	36,900	25.1
All species	17,400	100.0	6,220	100.0	77,200	100.0	147,000	100.0
Cordwood stands								
Conifers	6,600	56.4	3,050	37.3	35,900	34.5	61,900	28.7
Oaks and hickory	3,900	33.0	4,160	50.9	55,500	53.2	128,800	59.7
Other hardwoods	1,200	10.6	960	11.8	12,800	12.3	25,100	11.6
All species	11,700	100.0	8,170	100.0	104,200	100.0	215,800	100.0
All merchantable stands	29,100		14,390		181,400		362,800	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.) (inches)	Conifers 1/		Oak and hickory 2/		Other hardwoods 3/		All species	
	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	800	10.1					800	4.6
12	1,300	15.4	800	12.9	600	25.2	2,700	15.5
14	1,500	17.3	900	13.6	500	21.7	2,900	16.7
16	1,200	14.1	1,100	17.1	400	19.1	2,700	15.5
18	1,500	17.6	1,000	14.4	300	14.8	2,800	16.1
20	1,000	11.6	1,000	14.4	200	8.3	2,200	12.6
22 & up	1,200	13.9	1,800	27.6	300	10.9	3,300	19.0
All classes	8,500	100.0	6,600	100.0	2,300	100.0	17,400	100.0

1/ Principally white pine, hemlock and pitch pine.

2/ Principally white, red, and black oaks, with some hickory and chestnut, scarlet and pin oaks.

3/ Principally red maple, black birch, yellow poplar and white ash, with some walnut, aspen, black locust, sycamore, willow, basswood, elm and black gum.

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Oaks and hickory 2/			Other hardwoods 3/			All species		
inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	350	11.5	7,100	1,030	24.8	31,900	320	33.4	8,400	1,700	20.8	47,400
8	500	16.4	10,200	860	20.7	26,700	200	20.8	5,200	1,560	19.1	42,100
10	700	23.0	14,200	690	16.6	21,400	180	18.7	4,700	1,570	19.2	40,300
12	820	26.9	16,700	650	15.6	20,100	150	15.6	3,900	1,620	19.8	40,700
14 & up	680	22.2	13,700	930	22.3	28,700	110	11.5	2,900	1,720	21.1	45,300
All classes	3,050	100.0	61,900	4,160	100.0	128,800	960	100.0	25,100	8,170	100.0	215,800

1/ Principally white pine, hemlock, and pitch pine.

2/ Principally white, red, chestnut, and black oak, with some hickory, scarlet oak, and pin oak.

3/ Principally red maple, black birch, and white ash, with some yellow poplar, walnut, aspen, sycamore, willow, black locust, elm, yellow birch, red birch, basswood, black gum, and dogwood.

Table 1. Land use

Land use	Area	Proportion of class	Proportion of gross area
	acres	percent	percent
Forest 1/			
Tracts less than 10 acres	3,200	1.2	1.0
Tracts 10 up to 50 acres	4,600	1.8	1.5
Tracts 50 acres and over	242,400	97.0	79.2
All forest land	250,200	100.0	81.7
Nonforest			
Cropland 2/	24,400	43.5	8.0
Mine waste 1/	100	0.2	*
Water 2/	600	1.1	0.2
Other	31,000	55.2	10.1
All nonforest land	56,100	100.0	18.3
Gross	306,300	100.0	100.0

1/ Based on aerial photographs taken in 1939.

2/ Bureau of the Census, 1940.

* Negligible

Table 2. - Forest area by minor civil divisions

Civil Division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Cherry t., Dushore b.	40,200	17,600	22,600	56.2	9.0
Colley t.	39,500	5,800	33,700	85.3	13.5
Davidson t.	57,300	4,600	52,700	91.9	21.1
Elkland t.	26,100	9,300	16,800	64.2	6.7
Forks t., Forksville b.	30,800	6,900	23,900	77.7	9.6
Fox t.	26,900	4,300	22,600	84.1	9.0
Hillsgrove t.	20,200	2,600	17,600	87.3	7.0
Laporte t., Laporte b.	30,900	2,400	28,500	92.2	11.4
Shrewsbury t., Eagles Mere b.	34,400	2,600	31,800	92.3	12.7
All civil divisions	306.300	56,100	250,200	81.7	100.0

1/ Abbreviations: t. - township, b. - borough.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
Northern hardwoods	21,500	62.5	84,200	81.6	53,900	47.8	159,600	63.8
Aspen, gray birch, pin cherry	--	--	2,600	2.5	33,200	29.5	35,800	14.3
White pine, hemlock	12,900	37.5	15,200	14.7	25,000	22.2	53,100	21.2
White oak, red oak, black oak	--	--	1,200	1.2	300	0.3	1,500	0.6
Other	--	--	--	--	200	0.2	200	0.1
All types	34,400	100.0	103,200	100.0	112,600	100.0	250,200	100.0

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	4,300	12.5	1.7
6,000 to 7,999	3,200	9.3	1.3
4,000 to 5,999	8,700	25.3	3.5
2,000 to 3,999	18,200	52.9	7.3
All saw timber	34,400	100.0	13.8
Cordwood 2/ (cords per acre)			
10.0 and over	36,800	35.7	14.7
5.0 to 9.9	66,400	64.3	26.5
All cordwood	103,200	100.0	41.2
All merchantable areas	137,600		55.0
All unmerchantable areas 3/	112,600		45.0
All forest land	250,200		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally) 1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable Saw timber (bd. ft. per acre)						
8,000 and over	42,400	13.0	11,430	6.7	150,300	293,900
6,000 to 7,999	22,200	6.8	6,710	4.0	88,200	172,500
4,000 to 5,999	42,600	13.1	15,170	9.0	199,600	390,300
2,000 to 3,999	56,400	17.3	23,450	13.9	309,600	605,200
All saw timber	163,600	50.2	56,760	33.6	747,700	1,461,900
Cordwood (cords per acre						
10.0 and over	59,600	18.3	33,130	19.6	439,500	868,400
5.0 to 9.9	52,100	16.0	37,230	22.1	493,400	975,300
All cordwood	111,700	34.3	70,360	41.7	932,900	1,843,700
All merchantable areas	275,300	84.5	127,120	75.3	1,680,600	3,305,600
All unmerchantable areas	50,700	15.5	41,660	24.7	555,500	1,083,200
All forest land	326,000	100.0	168,780	100.0	2,236,100	4,388,800

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	25,200	15.4	5,900	10.4	69,400	9.3	139,800	9.6
Oaks, hickory, and hard maple	21,300	13.0	6,920	12.2	92,300	12.3	198,300	13.6
Other hardwoods	117,100	71.6	43,940	77.4	586,000	78.4	1,123,800	76.8
All species	163,600	100.0	56,760	100.0	747,700	100.0	1,461,900	100.0
Cordwood stands								
Conifers	16,300	14.6	3,380	4.8	39,800	4.3	80,100	4.3
Oaks, hickory, and hard maple	20,300	18.2	11,330	16.1	151,100	16.2	325,600	17.7
Other hardwoods	75,100	67.2	55,650	79.1	742,000	79.5	1,438,000	78.0
All species	111,700	100.0	70,360	100.0	932,900	100.0	1,843,700	100.0
All merchantable stands	275,300		127,120		1,680,600		3,305,600	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/		Oaks, hickory, hard maple 2/		Other hardwoods 3/		All species	
(inches)	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	3,300	13.0					3,300	2.0
12	4,000	15.7	2,900	13.7	28,200	24.1	35,100	21.5
14	5,600	22.4	4,200	19.7	30,500	26.0	40,300	24.6
16	3,500	14.0	1,700	7.7	23,000	19.6	28,200	17.2
18	1,800	7.0	1,400	6.6	15,200	13.0	18,400	11.3
20	1,400	5.5	1,800	8.6	8,400	7.2	11,600	7.1
22 & up	5,600	22.4	9,300	43.7	11,800	10.1	26,700	16.3
All classes	25,200	100.0	21,300	100.0	117,100	100.0	163,600	100.0

1/ Principally hemlock and white pine, with some red spruce.

2/ Principally hard maple with some white, red and chestnut oak.

3/ Principally red maple, beech, white ash, and yellow birch with some black cherry, basswood, black birch and elm.

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Oaks & hard maple 2/			Other hardwoods 3/			All species		
inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	750	22.3	17,900	3,400	30.0	97,700	18,090	32.5	467,400	22,240	31.7	583,000
8	860	25.3	20,300	3,350	29.6	96,400	17,750	31.9	458,700	21,960	31.2	575,400
10	770	22.8	18,200	2,120	18.7	60,900	10,850	19.5	280,400	13,740	19.5	359,500
12	610	18.1	14,500	1,410	12.4	40,300	5,730	10.3	148,100	7,750	11.0	202,900
14 & up	390	11.5	9,200	1,050	9.3	30,300	3,230	5.8	83,400	4,670	6.6	122,900
All classes	3,380	100.0	80,100	11,330	100.0	325,600	55,650	100.0	1,438,000	70,360	100.0	1,843,700

1/ Principally hemlock and white pine with some pitch pine and red spruce

2/ Principally hard maple with some hickory and red, white, chestnut, and scarlet oak.

3/ Principally red maple, beech, yellow birch, white ash and black birch with some black cherry, aspen, basswood, elm, red birch, gray birch, ironwood, and dogwood.

SUSQUEHANNA COUNTY

Table 1. Land use

Land use	Area	Proportion of class	Proportion of gross area
	acres	percent	percent
Forest 1/			
Tracts less than 10 acres	7,000	2.6	1.3
Tracts 10 up to 50 acres	9,600	3.6	1.8
Tracts 50 acres and over	252,100	93.8	46.8
All forest land	268,700	100.0	49.9
Nonforest			
Cropland 2/	132,400	49.2	24.6
Mine waste 1/	100	*	*
Water 2/	2,200	0.8	0.4
Other	134,600	50.0	25.1
All nonforest land	269,300	100.0	50.1
Gross	538,000		100.0

1/ Based on aerial photographs taken in 1937 and 1939

2/ Bureau of the Census, 1940.

* Negligible

Table 2. - Forest area by minor civil divisions

Civil Division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Apolacon t., Little Meadows b.	15,800	7,900	7,900	50.3	2.9
Ararat t.	13,200	6,300	6,900	52.5	2.6
Auburn t.	33,000	21,700	11,300	34.3	4.2
Bridgewater t., Montrose b.	28,100	20,800	7,300	26.1	2.7
Brooklyn t.	15,200	8,600	6,600	43.7	2.4
Choconut t., Friendsville b.	14,100	6,900	7,200	51.0	2.7
Clifford t., Forrest City b.	26,700	13,100	13,600	50.9	5.1
Dimock t.	19,000	11,500	7,500	39.5	2.8
Forest Lake t.	19,100	11,400	7,700	40.4	2.9
Franklin t.	15,000	8,900	6,100	40.5	2.3
Gibson t.	20,600	8,700	11,900	57.5	4.4
Great Bend t., Great Bend b., Hallstead b.	24,600	7,600	17,000	69.2	6.3
Harford t.	21,600	8,300	13,300	61.5	5.0
Harmony t., Lansboro b.	21,800	5,100	16,700	76.6	6.2
Herrick t., Uniondale b.	17,600	9,100	8,500	48.4	3.2
Jackson t.	17,300	8,800	8,500	48.9	3.2
Jessup t.	13,900	9,300	4,600	33.2	1.7
Lathrop t., Hopbottom b.	14,200	8,200	6,000	42.6	2.2
Lenox t.	26,300	10,800	15,500	59.0	5.8
Liberty t.	19,300	8,500	10,800	55.7	4.0
Middletown t	18,500	9,900	8,600	46.6	3.2
New Milford t., New Milford b.	30,400	11,900	18,500	60.7	6.9
Oakland t., Oakland b., Susquehanna Depot b.	11,700	4,100	7,600	65.2	2.8
Rush t.	25,200	14,200	11,000	43.5	4.1
Silver Lake t.	21,200	10,300	10,900	51.3	4.1
Springville t.	20,200	11,800	8,400	41.6	3.1
Thompson t., Thompson b.	14,400	5,600	8,800	60.7	3.2
All civil divisions	538,000	269,300	268,700	49.9	100.0

1/ Abbreviations: t. - township, b. - borough.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditiont	
	acres	percent	acres	percent	acres	percent	acres	percent
Northern hardwoods	17,600	64.2	72,200	75.4	131,600	90.5	221,400	82.4
White pine, hemlock	8,000	29.2	8,600	9.0	10,200	7.0	26,800	10.0
White pine, white oak, red oak	*	*	100	0.1	100	0.1	200	0.1
White oak, red oak, black oak	1,800	6.6	14,800	15.4	3,400	2.3	20,000	7.4
Chestnut oak	--	--	100	0.1	200	0.1	300	0.1
All types	27,400	100.0	95,800	100.0	145,500	100.0	268,700	100.0

*Negligible

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	3,800	13.9	1.4
6,000 to 7,999	4,300	15.7	1.6
4,000 to 5,999	6,300	23.0	2.3
2,000 to 3,999	13,000	47.4	4.9
All saw timber	27,400	100.0	10.2
Cordwood 2/ (cords per acre)			
10.0 and over	37,700	39.4	14.0
5.0 to 9.9	58,100	60.6	21.6
All cordwood	95,800	100.0	35.6
All merchantable areas	123,200		45.8
All unmerchantable areas 3/	145,500		54.2
All forest land	268,700		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally) 1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	38,700	11.6	10,460	6.1	135,700	264,500
6,000 to 7,999	28,100	8.4	9,030	5.2	117,200	228,500
4,000 to 5,999	29,200	8.7	10,720	6.2	139,200	271,500
2,000 to 3,999	33,600	10.0	15,670	9.0	202,900	395,600
All saw timber	129,600	38.7	45,880	26.5	595,000	1,160,100
Cordwood (cords per acre)						
10.0 and over	56,900	17.0	33,490	19.3	440,400	890,200
5.0 to 9.9	46,000	13.8	32,890	19.0	433,200	876,100
All cordwood	102,900	30.8	66,380	38.3	873,600	1,766,300
All merchantable areas	232,500	69.5	112,260	64.8	1,468,600	2,926,400
All unmerchantable areas	101,900	30.5	61,110	35.2	814,800	1,595,000
All forest land	334,400	100.0	173,370	100.0	2,283,400	4,521,400

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	40,400	31.2	10,690	23.3	125,800	21.1	221,800	19.1
Oaks, hickory, and hard maple	22,000	17.0	8,120	17.7	108,300	18.2	238,800	20.6
Other hardwoods	67,200	51.8	27,070	59.0	360,900	60.7	699,500	60.3
All species	129,600	100.0	45,880	100.0	595,000	100.0	1,160,100	100.0
Cordwood stands								
Conifers	22,200	21.6	7,240	10.9	85,100	9.8	160,500	9.1
Oaks, hickory, and hard maple	25,600	24.9	14,740	22.2	196,500	22.4	437,400	24.8
Other hardwoods	55,100	53.5	44,400	66.9	592,000	67.8	1,168,400	66.1
All species	102,900	100.0	66,380	100.0	873,600	100.0	1,766,300	100.0
All merchantable stands	232,500		112,260		1,468,600		2,926,400	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.) (inches)	Conifers 1/		Oaks, hickory, hard maple 2/		Other hardwoods 3/		All species	
	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	3,800	9.3					3,800	2.9
12	4,800	11.8	3,600	16.6	16,500	24.5	24,900	19.2
14	4,900	12.2	4,500	20.5	17,100	25.5	26,500	20.5
16	5,300	13.2	2,900	13.2	13,000	19.4	21,200	16.4
18	5,100	12.6	2,400	10.9	8,100	12.0	15,600	12.0
20	3,900	9.7	1,300	5.7	5,000	7.4	10,200	7.9
22 & up	12,600	31.2	7,300	33.1	7,500	11.2	27,400	21.1
All classes	40,400	100.0	22,000	100.0	67,200	100.0	129,600	100.0

1/ Principally hemlock and white pine, with some pitch pine.

2/ Principally hard maple with some white, red, and chestnut oak.

3/ Principally red maple, beech, white ash, and yellow birch, with some black cherry, basswood, black birch and elm.

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Oaks and hard maple 2/			Other hardwoods 3/			All species		
inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	2,190	30.3	48,600	4,580	31.1	136,100	14,610	32.9	384,400	21,380	32.2	569,100
8	2,290	31.6	50,700	4,160	28.2	123,300	12,700	28.6	334,200	19,150	28.8	508,200
10	1,450	20.0	32,100	2,610	17.7	77,400	10,030	22.6	264,000	14,090	21.2	373,500
12	720	10.0	16,100	1,950	13.2	57,700	4,260	9.6	112,200	6,930	10.5	186,000
14	590	8.1	13,000	1,440	9.8	42,900	2,800	6.3	73,600	4,830	7.3	129,500
All classes	7,240	100.0	160,500	14,740	100.0	437,400	44,400	100.0	1,168,400	66,380	100.0	1,766,300

1/ Principally hemlock and white pine, with some pitch pine.

2/ Principally hard maple with some hickory and red, white, chestnut, and scarlet oak.

3/ Principally red maple, beech, yellow birch, white ash and black birch with some black cherry, aspen, basswood, elm, red birch, gray birch, ironwood, and dogwood.

Table 1. Land use

Land use	Area acres	Proportion of class percent	Proportion of gross area percent
Forest 1/			
Tracts less than 10 acres	8,800	3.0	1.8
Tracts 10 up to 50 acres	12,200	4.1	2.5
Tracts 50 acres and over	272,900	92.9	56.1
All forest land	293,900	100.0	60.4
Nonforest			
Cropland 2/	88,400	46.0	18.2
Mine 1/	100	0.1	-
Water 2/	10,500	5.5	2.2
Other	93,200	48.4	19.2
All nonforest land	192,200	100.0	39.6
Gross area	486,100		100.0

1/ Based on aerial photographs taken in 1937, 1938, 1939.

2/ Bureau of the Census, 1940.

Table 2. - Forest area by minor civil divisions

Civil Division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Berlin t.	25,300	9,200	16,100	63.5	5.5
Buckingham t.	29,700	11,000	18,700	62.8	6.4
Canaan t., Waymart b.	14,200	5,200	9,000	63.2	3.1
Cherry Ridge t.	14,300	7,600	6,700	46.7	2.3
Clinton t.	24,600	10,000	14,600	59.5	5.0
Damascus t.	53,400	23,200	30,200	56.6	10.3
Dreher t.	11,100	2,900	8,200	73.6	2.8
Dyberry t., Bethany b., Prompton b.	16,400	9,100	7,300	44.7	2.5
Lake t.	19,200	7,700	11,500	59.7	3.9
Lebanon t.	24,600	8,500	16,100	65.5	5.5
Lehigh t.	7,800	600	7,200	92.4	2.4
Manchester t.	28,900	8,100	20,800	71.9	7.1
Mt. Pleasant t.	37,600	16,700	20,900	55.7	7.1
Oregon t.	11,200	5,200	6,000	53.6	2.0
Palmyra t., Hawley b.	11,100	1,800	9,300	83.8	3.2
Paupack t.	20,800	5,400	15,400	74.0	5.2
Preston t., Starrucca b.	38,400	20,800	17,600	45.7	5.9
Salem t.	20,700	9,900	10,800	52.3	3.7
Scott t.	29,400	8,800	20,600	70.2	7.0
S. Canaan t.	17,800	9,700	8,100	45.3	2.7
Sterling t.	17,600	5,000	12,600	71.8	4.3
Texas t., Honesdale b.	12,000	5,800	6,200	51.4	2.1
All civil divisions	486,100	192,200	293,900	60.4	100.0

1/ Abbreviations: t. - township, b. - borough.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
Northern hardwoods	21,000	73.2	67,700	82.4	137,600	75.1	226,300	77.0
Aspen, gray birch, pin cherry	--	--	--	--	100	0.1	100	*
White pine, hemlock	6,500	22.6	8,800	10.7	17,300	9.5	32,600	11.1
White pine, white oak, red oak	800	2.8	3,200	3.9	13,500	7.4	17,500	6.0
White oak, red oak, black oak	400	1.4	2,500	3.0	14,500	7.9	17,400	5.9
All types	28,700	100.0	82,200	100.0	183,000	100.0	293,900	100.0

*Negligible

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	4,100	14.3	1.4
6,000 to 7,999	5,200	18.1	1.8
4,000 to 5,999	4,400	15.3	1.5
2,000 to 3,999	15,000	52.3	5.1
All saw timber	28,700	100.0	9.8
Cordwood 2/ (cords per acre)			
10.0 and over	35,100	42.7	11.9
5.0 to 9.9	47,100	57.3	16.1
All cordwood	82,200	100.0	28.0
All merchantable areas	110,900		37.8
All unmerchantable areas 3/	183,000		62.2
All forest land	293,900		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally) 1/		Total volume (including bark)			
	M bd. ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	45,100	12.4	11,790	6.3	154,000	305,900
6,000 to 7,999	35,400	9.7	11,280	6.1	147,100	292,200
4,000 to 5,999	19,400	5.3	7,310	3.9	95,500	189,800
2,000 to 3,999	38,300	10.5	17,760	9.5	231,900	460,800
All saw timber	138,200	37.9	48,140	25.8	628,500	1,248,700
Cordwood (cords per acre)						
10.0 and over	62,600	17.2	34,750	14.0	459,400	939,500
5.0 to 9.9	37,500	10.3	26,780	19.0	353,700	723,400
All cordwood	100,100	27.5	61,530	33.0	813,100	1,662,900
All merchantable areas	238,300	65.4	109,670	58.8	1,441,600	2,911,600
All unmerchantable areas	126,300	34.6	76,860	41.2	1,024,800	2,036,800
All forest land	364,600	100.0	186,530	100.0	2,466,400	4,948,400

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifers	34,800	25.2	8,470	17.6	99,600	15.9	176,100	14.1
Oaks, hickory, and hard maple	23,200	16.8	9,340	19.4	124,500	19.8	272,300	21.8
Other hardwoods	80,200	58.0	30,330	63.0	404,400	64.3	800,300	64.1
All species	138,200	100.0	48,140	100.0	628,500	100.0	1,248,700	100.0
Cordwood stands								
Conifers	22,600	22.6	4,610	7.5	54,200	6.7	99,100	6.0
Oaks, hickory, and hard maple	20,500	20.5	13,840	22.5	184,500	22.7	411,900	24.8
Other hardwoods	57,000	56.9	43,080	70.0	574,400	70.6	1,151,900	69.2
All species	100,100	100.0	61,530	100.0	813,100	100.0	1,662,900	100.0
All merchantable stands	238,300		109,670		1,441,600		2,911,600	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/		Oaks, hickory hard maple 2/		Other hardwoods 3/		All species	
(inches)	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	4,800	13.9					4,300	3.5
12	6,200	17.8	3,600	15.4	17,500	21.8	27,300	19.8
14	6,000	17.3	4,600	19.9	17,300	21.6	27,900	20.2
16	6,000	17.2	3,000	13.0	15,100	18.9	24,100	17.4
18	5,900	16.8	3,100	13.1	11,800	14.7	20,800	15.0
20	1,400	4.0	1,500	6.6	7,100	8.8	10,000	7.2
22 & up	4,500	13.0	7,400	32.0	11,400	14.2	23,300	16.9
All classes	34,800	100.0	23,200	100.0	80,200	100.0	138,200	100.0

1/ Principally hemlock and white pine, with some pitch pine and red spruce.

2/ Principally hard maple with some white, red and chestnut oak.

3/ Principally red maple, beech, white ash, and yellow birch with some black cherry, basswood, black birch and elm.

WAYNE COUNTY

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Oaks & hard maple 2/			Other hardwoods 3/			All species		
inches	M cu. ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	1,290	28.0	27,700	4,680	33.8	139,200	14,170	32.9	379,000	20,140	32.7	545,900
8	1,180	25.6	25,400	4,100	29.6	121,900	14,220	33.0	380,100	19,500	31.7	527,400
10	1,000	21.8	21,600	3,030	21.9	90,200	9,220	21.4	246,500	13,250	21.6	358,300
12	770	16.6	16,500	870	6.3	26,000	3,230	7.5	86,400	4,870	7.9	128,900
14 & up	370	8.0	7,900	1,160	8.4	34,600	2,240	5.2	59,900	3,770	6.1	102,400
All classes	4,610	100.0	99,100	13,840	100.0	411,900	43,080	100.0	1,151,900	61,530	100.0	1,662,900

1/ Principally hemlock and white pine with some pitch pine and red spruce

2/ Principally hard maple with some hickory and red, white, chestnut, and scarlet oak.

3/ Principally red maple, beech, yellow birch, white ash and black birch with some black cherry, aspen, basswood, elm, red birch, gray birch, ironwood, and dogwood.

Table 1. Land use

Land use	Area	Proportion of class	Proportion of gross area
	acres	percent	percent
Forest 1/			
Tracts less than 10 acres	4,600	2.9	1.8
Tracts 10 up to 50 acres	15,500	9.7	6.0
Tracts 50 acres and over	140,100	87.4	54.2
All forest land	160,200	100.0	62.0
Nonforest			
Crop land 2/	47,000	47.8	18.1
Water 2/	4,800	4.9	1.9
Other	46,500	47.3	18.0
All nonforest land	98,300	100.0	38.0
Gross area	258,500		100.0

1/ Based on aerial photographs taken in 1937.

2/ Bureau of the Census, 1940.

Table 2. - Forest area by minor civil divisions

Civil Division 1/	Gross area	Nonforest area	Forest area	Proportion gross area in forest	Proportion of county forest land
	acres	acres	acres	percent	percent
Braintrim t., Laceyville b.	4,500	2,700	1,800	39.6	1.1
Clinton t., Factoryville b.	8,100	4,800	3,300	40.8	2.1
Eaton t.	23,300	6,100	17,200	73.6	10.7
Exeter t.	1,700	800	900	50.7	.6
Falls t.	13,200	7,500	5,700	43.2	3.6
Forkston t.	47,900	4,800	43,100	90.0	26.9
Lemon t.	10,500	6,000	4,500	43.2	2.8
Mehoopany t.	11,300	6,200	5,100	45.0	3.2
Meshoppen t., Meshoppen b.	10,900	7,000	3,900	36.1	2.4
Monroe t.	13,900	6,000	7,900	56.8	4.9
Nicholson t., Nicholson b.	15,600	8,600	7,000	44.7	4.4
North Branch t.	12,200	2,700	9,500	78.1	5.9
Northmoreland t.	13,000	5,700	7,300	56.3	4.6
Noxen t.	18,200	2,200	16,000	87.7	10.0
Overfield t.	6,500	3,700	2,800	43.7	1.7
Tunkhannock t., Tunkhannock b.	20,900	10,100	10,800	51.8	6.7
Washington t.	12,300	7,400	4,900	39.7	3.1
Windham t.	14,500	6,000	8,500	58.6	5.3
All civil divisions	258,500	98,300	160,200	62.0	100.0

1/ Abbreviations: t. - township, b. - borough.

Table 3. Forest area by forest types and conditions

Forest type	Saw timber		Cordwood		Unmerchantable		All conditions	
	acres	percent	acres	percent	acres	percent	acres	percent
Northern hardwoods	7,600	59.9	38,200	68.8	39,600	43.1	85,400	53.3
Aspen, gray birch, pin cherry	--	--	3,500	6.3	23,000	25.0	26,500	16.5
White pine, hemlock	3,500	27.6	4,500	8.1	5,700	6.2	13,700	8.6
White pine, white oak, red oak	--	--	100	0.2	300	0.3	400	0.2
White oak, red oak, black oak	1,600	12.5	9,000	16.2	23,000	25.0	33,600	21.0
Other	--	--	200	0.4	400	0.4	600	0.4
All types	12,700	100.0	55,500	100.0	92,000	100.0	160,200	100.0

Table 4. Forest area by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Area	Proportion of each condition	Proportion of total forest land
	acres	percent	percent
Merchantable			
Saw timber 1/ (bd. ft. per acre)			
8,000 and over	1,400	11.0	0.9
6,000 to 7,999	1,500	11.8	0.9
4,000 to 5,999	2.700	21.3	1.7
2,000 to 3,999	7,100	55.9	4.4
All saw timber	12,700	100.0	7.9
Cordwood 2/ (cords per acre)			
10.0 and over	18,400	33.2	11.5
5.0 to 9.9	37,100	66.8	23.2
All cordwood	55,500	100.0	34.7
All merchantable areas 3/	68,200		42.6
All unmerchantable areas	92,000		57.4
All forest land	160,200		100.0

1/ In tracts 10 acres or larger each acre of which has at least 2,000 board feet (lumber tally).

2/ In tracts 10 acres or larger each acre of which has at least 5 cords (400 cubic feet) but less than 2,000 board feet.

3/ Includes saw-timber and cordwood tracts less than 10 acres, young growth, and areas which require planting to assure early productivity.

Table 5. Volume by forest conditions and volume-per-acre classes

Forest condition and volume-per-acre classes	Saw-timber volume (lumber tally)1/		Total volume (including bark)			
	M bd.ft.	percent	M cu.ft.	percent	cords	tons
Merchantable						
Saw timber (bd. ft. per acre)						
8,000 and over	12,900	6.9	3,640	3.0	47,200	94,900
6,000 to 7,999	9,600	5.1	3,050	2.5	39,400	79,400
4,000 to 5,999	12,400	6.6	4,500	3.7	58,100	117,100
2,000 to 3,999	18,600	10.0	8,590	7.0	111,300	224,300
All saw timber	53,500	28.6	19,780	16.2	256,000	515,700
Cordwood (cords per acre)						
10.0 and over	30,400	16.3	16,880	13.8	222,200	452,100
5.0 to 9.9	34,300	18.3	22,880	18.8	302,000	614,200
All cordwood	64,700	34.6	39,760	32.6	524,200	1,066,300
All merchantable areas	118,200	63.2	59,540	48.8	780,200	1,582,000
All unmerchantable areas	69,000	36.8	62,560	51.2	834,200	1,664,100
All forest land	187,200	100.0	122,100	100.0	1,614,400	3,246,100

1/ Based on the International 1/4-inch rule which closely approximates green lumber tally.

Table 6. Volume in merchantable stands by species groups

Merchantable class and species group	Saw-timber volume (lumber tally)		Total volume (including bark)					
	M bd. ft.	percent	M cu. ft.	percent	cords 1/	percent	tons 2/	percent
Saw-timber stands								
Conifer	18,400	34.3	4,960	25.1	58,400	22.8	112,700	21.9
Oaks, hickory, and hard maple	14,100	26.3	5,080	25.7	67,700	26.5	153,900	29.8
Other hardwoods	21,000	39.4	9,740	49.2	129,900	50.7	249,100	48.3
All species	53,500	100.0	19,780	100.0	256,000	100.0	515,700	100.0
Cordwood stands								
Conifers	13,500	20.8	3,900	9.8	45,900	8.8	89,200	8.4
Oaks, hickory, and hard maple	24,000	37.1	13,040	32.8	173,900	33.2	396,400	37.2
Other hardwoods	27,200	42.1	22,820	57.4	304,400	58.0	580,700	54.4
All species	64,700	100.0	39,760	100.0	524,200	100.0	1,066,300	100.0
All merchantable stands	118,200		59,540		780,200		1,582,000	

1/ Based on 85 cubic feet per cord for conifers and 75 cubic feet per cord for hardwoods.

2/ Based on cubic feet-per-ton converting factors for the principal species.

Table 7. Board foot volume in merchantable saw-timber stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/		Oaks hickory, hard maple 2/		Other hardwoods 3/		All species	
inches	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent	M bd.ft.	percent
10	2,700	14.8					2,700	5.1
12	3,800	20.3	2,500	18.0	5,100	24.2	11,400	21.3
14	3,100	16.9	2,400	16.7	5,100	24.1	10,600	19.8
16	2,400	13.2	2,500	17.5	2,700	13.0	7,600	14.2
18	2,000	10.7	2,700	18.9	2,800	13.1	7,500	14.0
20	1,500	8.2	1,100	7.9	1,800	8.8	4,400	8.2
22 & up	2,900	15.9	2,900	21.0	3,500	16.8	9,300	17.4
All classes	18,400	100.0	14,100	100.0	21,000	100.0	53,500	100.0

1/ Principally hemlock and white pine, with some pitch pine and red spruce.

2/ Principally hard maple, red and white oak, with some hickory and chestnut, black, scarlet, and pin oaks.

3/ Principally beech, red maple, white ash and yellow birch, with some basswood, black cherry, walnut, sycamore, willow, black locust, elm and yellow poplar.

Table 8. Cubic foot volume in merchantable cordwood stands by diameter classes and species groups

Diameter class (d.b.h.)	Conifers 1/			Hickory, oaks, hard maple 2/			Other hardwoods 3/			All species		
Inches	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons	M cu.ft.	percent	tons
6	170	4.4	3900	430	3.3	13100	1280	5.6	32500	18800	4.7	49500
8	1630	41.7	37200	5200	39.9	158200	10340	45.3	263100	17170	43.2	458500
10	1220	31.4	28000	3400	26.1	103400	6500	28.5	165500	11120	28.0	296900
12	720	18.4	16400	2430	18.6	73700	3420	15.0	87100	6570	16.5	177200
14 & up	160	4.1	3700	1580	12.1	48000	1280	5.6	32500	3020	7.6	84200
All classes	3900	100.0	89200	13040	100.0	396400	22820	100.0	580700	39760	100.0	1066300

1/ Principally hemlock and white pine, with some pitch pine.

2/ Principally red, white, and chestnut oak with some hard maple, scarlet oak, and hickory.

3/ Principally red maple, beech, yellow birch, white ash and black birch with some black cherry, aspen, basswood, elm, red birch, gray birch, ironwood, and dogwood.